Tradenet MX DataMan Manual 11.1

Part Number B-01087-0-00-01

Release 11.1

IPC Information Systems, Inc.
Metro Center
One Station Place
Stamford, CT 06902 USA

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IPC Information Systems, Inc., the world's leading supplier of voice trading systems to the financial community, is based in New York City and has operations in the U.S., Canada, Europe, and the Far East. The company is part of the Kleinknecht Organization, a diversified electronics and communications company.

IPC Corporate Headquarters: Wall Street Plaza, 88 Pine Street, New York, NY 10005. Telephone (212) 825-9060

IPC United States Offices: Atlanta, Boston, Chicago, Cincinnati, Dallas, Los Angeles, New York, Philadelphia, and San Francisco.

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IPC Asian Headquarters: 10 Chater Road, Suite 1408, Prince's Building, Central, Hong Kong. Telephone 011 852 2530 3453.

IPC International Distribution: Canada, Frankfurt, Hong Kong, London, Singapore, Tokyo, and Zurich.

Printed in U.S.A.

United States Regulatory Section

The Tradenet MX Telephone System complies with Part 68 of the FCC Rules. On the front of the equipment cabinet is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for the equipment. The following information must be provided to the telephone company if requested.

FCC Registration No. USA: 2GKUSA-73740-KF-E and 2GKUSA-75523-MF-E

Ringer Equivalence Number (REN): 1.7B

USOC: RJ21X, RJ2DX, RJ2GX, RJ2HX, RJ48C

FIC (2 wire local switched access loop start): 02LS2

FIC (2 wire private line manual ringdown): 02AC2

FIC (2 wire private line automatic ringdown): 02LR2

FIC (4 wire private line no signalling): 04NO2

FIC (1.544 Mbs Superframe Format): 04DU9-BN

FIC (1.544 Mbs Superframe Format with B8ZS): 04DU9-DN

FIC (1.544 Mbs Extended Superframe Format with B8ZS): 04DU9-ISN

SOC: 9.0F, 6.0Y, 6.0N

Notes: Metallic pairs services might not be available from the telephone company at all locations.

The REN is used to determine the quantity of devices that can be connected to the telephone line. Excessive RENs on the telephone line can result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five. To be certain of the number of devices that can be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If the Tradenet MX System causes harm to the telephone network, the telephone company will notify you in advance that service might need to be temporarily discontinued. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company can make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice for you to make the necessary modifications to maintain uninterrupted service.

If trouble is experienced with the Tradenet MX Telephone System, contact IPC Information Systems, (203) 326-7189 for repair and/or warranty information. If the trouble is causing harm to the telephone network, the telephone company might ask you to remove the equipment from the network until the problem is resolved.

This equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, public service commission, or corporation commission for information.)

The Tradenet MX System is hearing-aid compatible (HAC).

This equipment is capable of providing access to interstate providers of operator services through the use of equal access codes. Modifications by aggregates to alter these capabilities might be a violation of the telephone operator consumer services improvement act of 1990 and Part 68 of the FCC Rules.

This equipment complies with the requirements in Part 15 of FCC Rules for a Class A computing device. Operation of this equipment in a residential area might cause unacceptable interference to radio and TV reception, requiring the operator to take whatever steps are necessary to correct the interference.

United Kingdom Regulatory Section

This equipment complies with the EMC directive for Class A as well as the safety compliance EN60950.

Registration No. UK: NS-2666-23-M-602603

Germany Regulatory Section

This equipment complies with the EMC directive for Class A as well as the safety compliance EN60950.

Registration No.: A122500F

Canada Regulatory Section

Model Number: Tradenet MX Telephone System

Type of Equipment: Key Telephone System

Certification Number: 632 4980 A

Interface(s): LS/B/CT/D1/D1E/D2/D3/D4

Connecting Methods: CA21A/CA2GA/CA2HA/CA21A

Load Number: 16

Equipment Attachment Limitations

CP-01, Part I

Section 10.1

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connections. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician as appropriate.

CP-01, Part I

Section 10.2

The **Load Number (LN)** assigned to each terminal device denotes the percentage to the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

Netherlands Regulatory Section

This equipment complies with the EMC directive for Class A as well as the safety compliance EN60950.

HTP No.: NL 95051101.

Switzerland Regulatory Section

BAKOM No.: 96.0737.P.N.

Contacting Systems Support Engineering

If you require technical assistance, contact your local IPC branch office or distributor. If you need additional assistance, call IPC Systems Support Engineering: in the USA and Canada, dial 1-800-NEED-IPC; elsewhere, dial the North America country access code, then 203-326-7189.

Before contacting Systems Support Engineering, please have the following information available:

- *modem telephone number*—Each System Center is installed with a modem so that the System Center can be accessed by Systems Support Engineering for diagnostics and troubleshooting.
- *software release*—Systems Support Engineering will ask you what software release you are using with your Tradenet MX System. To find out the software release on a stand-alone System Center, take the following steps:
  1. At the System Center workstation, open a shell tool window.
  2. Move your mouse cursor inside the shell tool window so the window is active.
  3. Type **`ckversion`** and press ENTER. Your software version will be listed.
- *system size*—Systems Support Engineering will ask you how large your system is; that is, the number of terminal units (TU), or terminal shelves, you have.
- *system power*—Systems Support Engineering will ask you what type of power you are using to power your Tradenet MX System. You need to tell them whether you are using AC or DC power. If you are using AC power, you need to tell them whether you are using HC or Kepco equipment; if you are using DC power, you need to tell them whether you are using HC or Unipower equipment.

In addition, be prepared to provide a description of the problem and what steps you took leading up to the problem.

Reader's Comments

Tradenet MX DataMan Manual **Release 11.1** **January 1998**

In a continuing effort to improve our manuals, the Technical Publications department invites all readers to use this form for submitting comments and suggestions. We appreciate your feedback.

Instructions: fill out this form, fold along the dotted lines, tape form closed, place stamp where indicated, and mail this form.

Identify any words in the manual that we used incorrectly or used instead of more suitable words.

fold here fold here

Provide examples of text that you misunderstood on the first reading or that you could not understand.

Indicate any terms that you could not find easily using the table of contents and index.

Indicate any illustrations that were difficult to understand (for example, blurry or small text).

Identify any concepts that would have been easier to understand with an illustration.

fold here fold here

What IPC training classes have you attended?

Class Title	Location	Date

Any other comments?

place
stamp
here

IPC Information Systems, Inc.
Metro Center
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Stamford, CT 06902 USA

ATTN: Technical Publications

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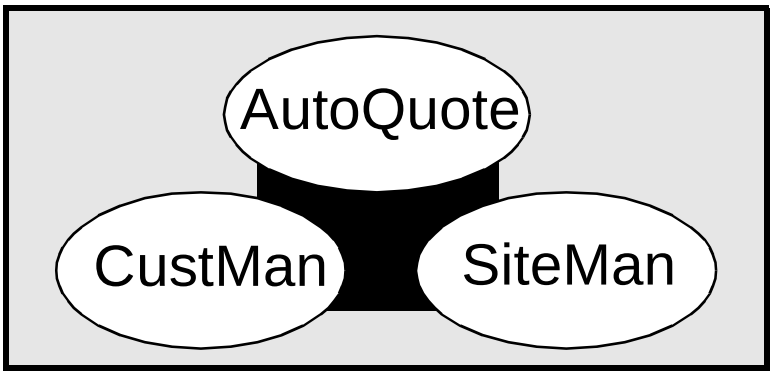


OVERVIEW

DataMan is the IPC database manufacturing system. Its purpose is to produce the site database for a Tradenet MX System. DataMan comprises three separate software applications:

- AutoQuote, which used to calculate the hardware requirements for a new Tradenet MX System
- CustMan, which is used to assemble customer-specific data for the new system, for example the programming of buttons, lines (circuit numbers and demarcs), and the correlation of this data by groups
- SiteMan, which merges the AutoQuote and CustMan results and produces the final database, to be released with the new Tradenet MX System

Purpose and Scope of This Manual

This manual provides:

- step-by-step procedures for using DataMan
- pointers and suggestions for dealing with specific aspects of DataMan

This manual focuses on DataMan. It does not contain information about:

- the UNIX operating system
- SPARCstations
- other applications (such as Informix, Wingz, Motif, and OpenLook)

For information about installing the DataMan software on the SPARCstation, refer to the *Tradenet MX Platform Manual 11.1* (part number B-00876-8-61-02).

Audience

This manual is intended for IPC technicians and other specialists who are responsible for configuring databases at customer sites. The user of this manual should have a good understanding of Tradenet MX components, architecture, and operation. This user should have completed IPC's Tradenet MX Installation & Maintenance (Level I) and IPC's Tradenet MX Database Reconfigurator (Level II) training sessions, and be familiar with the contents of the *Tradenet MX System Center Manual 11.1 (part number B-00861-8-51-02)*, the *Tradenet MX Technical Reference Manual 11.1* (part number B-01088-0-00-01), and the *Tradenet MX Installation & Maintenance Manual 11.1* (part number B-01089-0-00-01).

Warning! Unqualified individuals should not attempt to run DataMan.

Description of This Manual

This manual is arranged as follows:

- *Chapter 1 Introduction* on page 1-1—This chapter describes this manual.
- *Chapter 2 AutoQuote* on page 2-1—This chapter provides procedures and guidance in the use of AutoQuote.
- *Chapter 3 Creating a Database* on page 3-1—This chapter provides detailed procedures for using CustMan and SiteMan to create a site database.
- *Chapter 4 CustMan Utilities* on page 4-1—This chapter describes the utilities available to support you in your use of CustMan.
- *Chapter 5 CustMan Help* on page 5-1—This chapter provides help in the use of CustMan.
- *Chapter 6 CustMan for DOS* on page 6-1—This chapter describes the installation process, equipment, and software requirements for running CustMan on an IBM PC.

- *Chapter 7 Import Lotus 1-2-3 Templates* on page 7-1—This chapter describes the Lotus import utility, which provides a way for customers to record CustMan input data on Lotus spreadsheets; the data can then be transferred to the PM sheets.
- *Chapter 8 Building a Database - Quick Reference* on page 8-1—This chapter contains the 92 step procedure for creating a database.

Notes, Cautions, and Warnings

Notes, cautions, and warnings are included in this document. They have been designed to provide useful information or to help direct your attention to specific text or required action.

Note	*Notes highlight information to which you should pay special attention. The note will often significantly qualify previously presented procedures or descriptions.*

Caution	**A caution tells you about something that could have unpredictable results. Cautions indicate unexpected behavior or something of which you might not otherwise be aware.**

Warning!	***Warnings indicate there is a possibility of input error, database damage, or serious process interruption.***

Special Formatting

This section describes the special formatting used in this manual and what it indicates.

Computer Keys

Many instructions include *key combinations* where you need to press two keys simultaneously. For example, when CTRL-c is specified, it means you should press and hold down CTRL, press c, and release CTRL.

Note	*The main part of your keyboard (not the number pad) has either ENTER or RETURN. This document uses ENTER. If your keyboard uses RETURN instead of ENTER, use RETURN each time the instructions tell you to use ENTER.*

Bold, Sans Serif Text

Bold, sans serif text indicates menus, commands, and other words that appear on your screen. For example: Click **Table Operations**, then **Save Table**.

Courier Bold Text

Courier bold text indicates characters or words that you type. For example: At the prompt, type **`halt`**.

Note	*Remember that the operating system is case-sensitive. Make sure you type instructions exactly as they are written in this manual.*

INTRODUCTION TO DATAMAN

DataMan consists of three software applications, AutoQuote, CustMan, and SiteMan.

AutoQuote is used to calculate the hardware requirements for a proposed Tradenet MX System. AutoQuote has no role in pricing the job, except that its output is supplied to a pricing program. AutoQuote has three basic components:

- An order form, written in the standard query language, Informix.
- A hardware configurator (known as CGEN), which takes the information that was entered into the order form and produces the skeleton of a Tradenet MX database.
- The result of this is then re-generated into an easy-to- read report format.

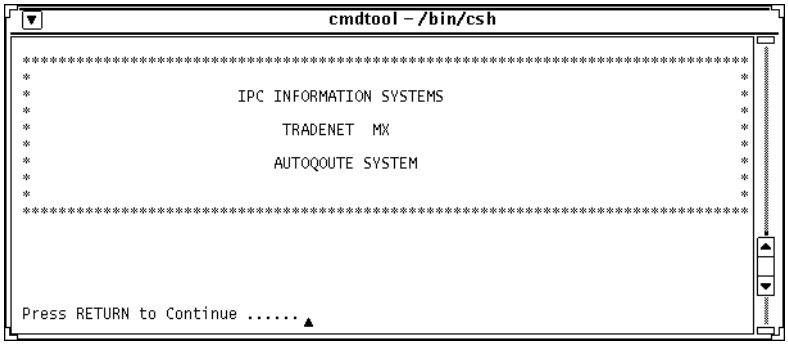
CustMan satisfies the requirement for the gathering and entry of customer-specific data. CustMan, which runs on the spreadsheet program Wingz, provides a custom made menu bar along with predefined spreadsheets for the task of data entry. In these speadsheets, information such as trader groups, billing groups, trader button layouts and line and wire identification is defined. After customer data has been entered, CustMan produces copies of these spreadsheets in text file format which are used in the creation of the site database.

The last software package is SiteMan. SiteMan uses the same order form and hardware configurator (CGEN) as AutoQuote to produce a skeleton database. It then takes the skeleton and merges it with the CustMan customer data (now in text file format) and produces a final database. SiteMan also has the ability to run the System Center reports, provide access to the Spreadsheet Data View used by the System Center and the connection to CustMan. It should be noted that the hardware configurator and the CustMan spreadsheets can be run multiple times independently without affecting each other, so that various configurations of the site hardware and software can be evaluated before running the merge process.

Other things you should know about the DataMan software and the final MX database are:

- The MX databases are built on the standard engine, Interactive Structured Query Language of Informix (ISQL). The Informix used by MX was built to run on the operating system platform of UNIX. Therefore, any aspect of the database manufacturing system that uses Informix is required to run on UNIX.
- As part of the building of a skeleton database, CGEN (the hardware configurator or generator) performs system wide traffic calculations and assigns where each card in the MX System will be placed.
- AutoQuote and SiteMan, which use Informix, can be run only on the Sun SPARCstation 5 or Sun SPARCstation 20 (UNIX platform).
- CustMan, which uses Wingz, can be run on both the Sun SPARCstation (UNIX platform) and on the PC Windows platform).

Chapter 2 AutoQuote



INTRODUCTION

The purpose of the AutoQuote software package is to calculate the types and amounts of hardware required to satisfy a particular set of customer requirements for a Tradenet MX System.

AutoQuote has three basic software components:

- an order form, written in the Informix query language, which consists of 10 screen formats on which you enter information about a Tradenet MX System
- a hardware configurator, CGEN, which uses the information from the order form to produce the skeleton of a database
- a report generator, which tabulates the information into an easy-to-read format

The users of AutoQuote include:

- IPC sales representatives (account executives, account managers) who work with customers to identify their requirements
- IPC sales engineers (estimators) who specialize in running AutoQuote to configure the customer's system, and the Tradenet MX Pricing Tool to price the job
- IPC operations personnel whose responsibility is to order material for installations based on the AutoQuote report (the report.txt file)

This chapter provides information on the use of AutoQuote; it is not intended as a guide to planning or estimating.

Note *The use of methods other than AutoQuote to configure systems is not approved by IPC Information Systems, and can result in Tradenet MX Systems that will not operate properly under traffic stress.*

GENERAL PROCEDURE

The use of AutoQuote involves the following steps:

1. An IPC sales representative determines customer requirements for a new Tradenet MX System, and records the types and amounts of hardware required to meet these requirements. There is no standard recording form; typical forms are illustrated in *FIGURE 2-1 AutoQuote Data Input Form – 1* on page 1-4, and *FIGURE 2-2 AutoQuote Data Input Form – 2* on page 2-5.
2. Information is transferred from the form onto the computer-based AutoQuote order form.
3. AutoQuote is run, generating an initial list of the line item parts required to support the configuration.
4. Parameters can be changed based on further discussions with the customer. AutoQuote can be run repeatedly until the optimal configuration is identified.

Note *AutoQuote deals only with the configuration of equipment. Pricing is a separate operation. Therefore the optimal system is the one that handles the most traffic with the least hardware.*

---

5. AutoQuote output is supplied as input to the MX Pricing Tool, which generates the job price.

FIGURE 2-1 AutoQuote Data Input Form – 1

Autoquote Request | **Client** | **Salesperson:**

IPC Information Systems | **Address** | **Date:**

This is a request for a Compact system. → ☐

Equip'd Opt. 1			← Label columns and enter quantities for equipped, wired or optional configurations
			MX COMPONENT INFO
			Control Module
			Control/Pagination Module
			Control/PCD Module
			FTS II 4 Chan. Speaker
			LCD FTS II 4 Chan. Speaker
			FTS II 8 Chan. Speaker
			LCD FTS II 8 Chan. Speaker
			Hands Free Module
			Add On Pagination Module
			Jackboxes
			Handsets
			Microphones
			Remote Turret Interface
			High Res
			ANALOG COMPONENT INFO
			Control Module
			Analog FTS-4
			40 Button Page Module
			Analog FTS-8
			60 Button PCD Module
			Touch Screen Module
			BRIDGE PRODUCT INFO
			Single Line Spkr Cube- 3" metal
			Two Line Spkr Cube- 4" metal
			Single Line Spkr Cube- Plastic
			Four Line Spkr Cube- 4" metal
			Single Line Spkr w/Handsets
			Broker Phone
			T1 Recorder Board
			ISDN KEYSET INFO
			Keyset (8305) w/Intercom? ☐
			Keyset (8510) w/Intercom? ☐
			Keyset (8520) w/Intercom? ☐
			TradePhone MX ☐
			SYSTEM CONFIGURATION
AC ☐	DC ☐		Power Type
1 ☐	2 ☐		Load Sharing
2 ☐	3 ☐		Switch Cards per Shelf
Y ☐	N ☐		Standard System Center
Y ☐	N ☐		Large System Center
Y ☐	N ☐		Speaker Intercom Channels
			Total Qty of Individual Speakers
Y ☐	N ☐		MSIC Network Redundancy
			Total Qty of MSIC D/A boxes
			LINE INFO
			Common Battery Lines
			Private Lines
			Ser. II Intworking Dialtone Lines
			Ser. II Intworking Private Lines
			T1 Facilities
			E1 Facilities (CAS)
			US Primary Rate Facilities
			UK Primary Rate Facilities
			DASC Primary Rate Facilities
			4-Wire Lines
			# of Semi-Dynamic Channels

DIGITAL POSITION INFORMATION

Number of Positions	Handsets	Hands Free Modules	FTS Modules	ICM Channels	InLine Monitor	FTS II Modules	Dynamic Channels	Semi Dyn Channels	HR Glass (Wired? Option? Equipped?)	
										1
										2
										3
										4
										5
										6
										7
										8
										9
										10

ANALOG POSITION INFORMATION

Positions	Handsets	Dynamic	Semi-Dynamic	
				1
				2
				3
				4
				5
				6
				7
				8
				9
				10

NOTES Use this area for listing additional equipment, overtime labor information or any special instructions related to this job.

FIGURE 2-2 AutoQuote Data Input Form – 2

TRADENET MX DIGITAL AUTOQUOTE REQUEST

Customer ____ Date ______________________________

Install Address_____________________________ Salesperson ____

City/State __________________________ New Customer ________ Rebid of________________________________

POSITION REQUIREMENTS

	EQUIPPED	WIRED		EQUIPPED	WIRED
Control Module	_________	_________	Cleardeal 4 LCD	_________	_________
Control/Pagination Module	_________	_________	Cleardeal 8 LCD	_________	_________
Control/PCD Module	_________	_________	Keyset	_________	_________
Add On Pagination Module	_________	_________	Microphone	_________	_________
Jackbox	_________	_________	________________	_________	_________
Handset	_________	_________	**SNIC/STIC Cards**	_________	_________
Intercom Module	_________	_________	**DIGITAL Recording**	_________	_________

LINE REQUIREMENTS

Common Battery (ALIC)	_________	_________	4 Wire (FLIC)	_________	_________
Manual Private (PLIC)	_________	_________	Series 2 Interworking (S2IC)	_________	_________
T-1 Facilities Card (DLIC)	_________	_________	HOOT POOL (Semi Dynamic)	_________	_________

SYSTEM SELECTION

		SYSTEM	REDUNDANCY		INTERCOM ON	
MODEL	**CURRENT**	**CENTER**	**POWER**	**SWITCHING**	**SPEAKERS**	**ISDN**
Compact	AC	SM	N N+1	N N+1	Y N	Y N
One Cabinet (Mini)	AC DC	SM	N N+1	N N+1	Y N	Y N
Triplet (KEPCO)	AC	SM LG	N+1	N N+1	Y N	Y N
Triplet	DC	SM LG	N N+1	N N+1	Y N	Y N

POSITION (Module) Layout				***SPEAKER CHANNEL DISTRIBUTION***		
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________
Pos_______	Handset_____	ICM_____	CD______	DYN_______	SEMI-DYN_______	ICM________

Notes

USE THIS SHEET FOR LOCAL POSITIONS ONLY. IF REMOTE POSITIONS ARE NEEDED, PREPARE ADDITIONAL REQUEST FORM (POSITION REQUIREMENTS AND LAYOUT SECTIONS).

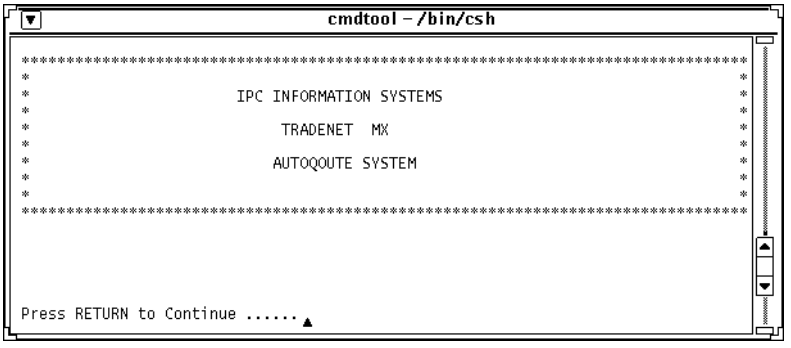
BRIDGE EQUIPMENT REQUIREMENTS ARE ON PAGE 2 OF THIS FORM.

START AUTOQUOTE

To start AutoQuote, take the following steps:

1. Power up the SPARCstation.
2. At the **syscen login:** prompt, type: **`install`**; press ENTER.
3. At the **password** prompt, type: <password>; press ENTER.The system starts the OpenWindows application and opens three windows: a console, a clock, and a shell tool.
4. Move the console to the top of the screen.
5. Reduce the clock to an icon by clicking the triangle in its top left corner.
6. In the **System Installation Shelltool** window, at the **syscen: /usr/sx/db>** prompt, type: **`cd dataman/autoquote`**; press ENTER.
7. At the **syscen: /usr/sx/db/dataman/autoquote>** prompt, type: **`autoquote`**; press ENTER. You see the AutoQuote welcome screen.

FIGURE 2-3 AutoQuote Welcome Screen



STANDARD SYSTEM AUTOQUOTE

This section describes the design of a Standard Tradenet MX System. The design of a Compact system is essentially the same, and is described in *Compact System AutoQuote* on page 2-30.

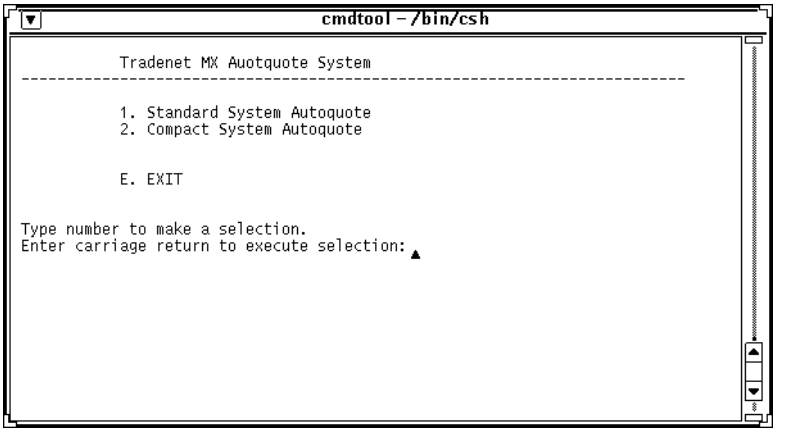
Display the Order Form

The first step is to display the order form. The procedure:

1. Press ENTER on the AutoQuote welcome screen. You see the **Tradenet MX AutoQuote System** menu, which is shown in the figure below.

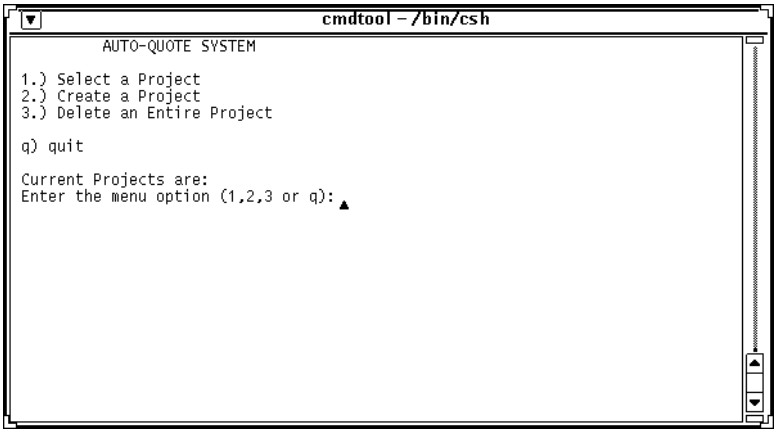
Note *Select an option by using the space bar or the arrow keys to highlight the option, or by typing an entry. In either case, press ENTER to execute the command.*

FIGURE 2-4 **Tradenet MX AutoQuote System** Menu



2. Type **1**; press ENTER to select the **Standard System AutoQuote** option. You see the **AUTO-QUOTE System** menu.

FIGURE 2-5 **AUTO-QUOTE SYSTEM** Menu



3. If you are creating a new project, type **2**; press ENTER.

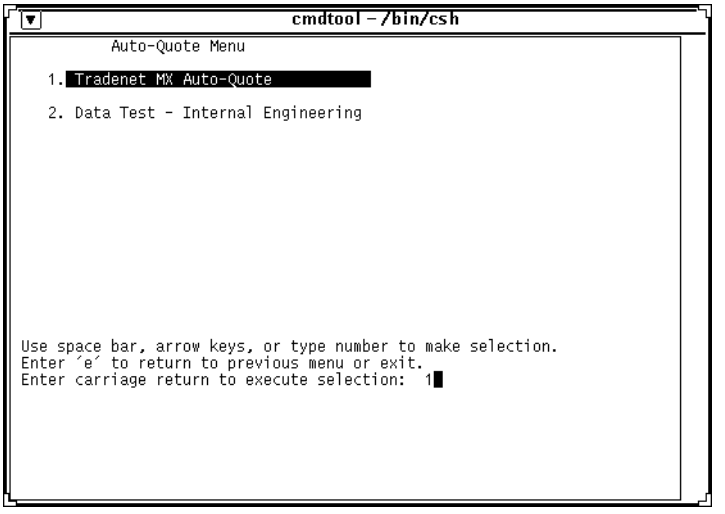
Note *Once a project has been created, you access it by selecting it, or by or typing* **1** *and pressing ENTER.*

4. Type a name for the new project; press ENTER.

Note *Entries on the AutoQuote menus are case sensitive.*

The system creates a location for the project, then displays the Auto-Quote menu.

FIGURE 2-6 **Auto-Quote Menu**

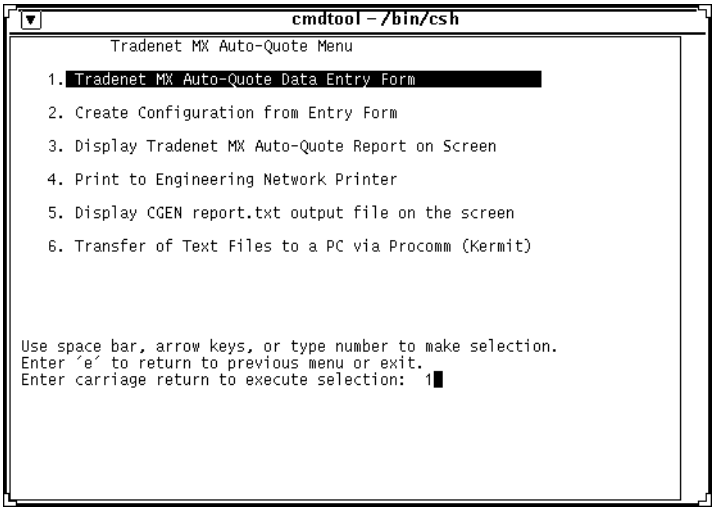


5. Select **1, Tradenet MX AutoQuote** (or type **1**); press ENTER.

Note *Option 2, Data Test - Internal Engineering, is intended for use only by IPC Engineering Department personnel.*

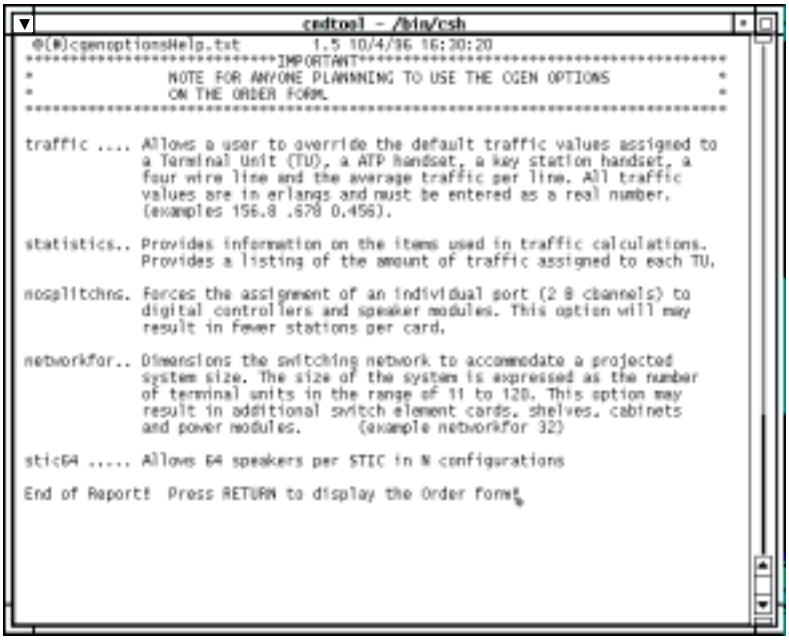
You see the Tradenet MX Auto-Quote menu:

FIGURE 2-7 **Tradenet MX Auto-Quote Menu**



6. Select Option 1, **Tradenet MX AutoQuote Data Entry Form**; press ENTER. You see notes about the use of CGEN options with the order form.

FIGURE 2-8 CGEN Options.



CGEN options are selected on the **Line Information** screen of the order form. See *Line Information Screen* on page 2-19.

When you press ENTER, you see the first screen of the order form.

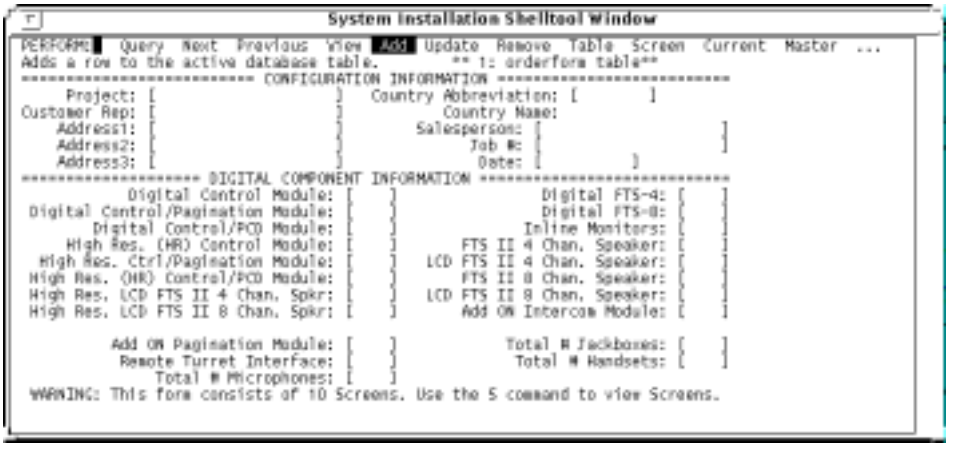
On the order form screens, enter the specific customer information (usually provided by IPC Sales). While the cursor is in a field, brief instructions on entering data into that field are displayed at the bottom of the window.

The order form screens are illustrated and described on the following pages. Explanatory notes are provided to call attention to important points. You can add notes as necessary to customize the order form to your own application.

The information in this chapter is specific to AutoQuote; for more general information about the order form, see *Creating a Database* on page 3-1.

Configuration Information and Digital Component Information Screen

FIGURE 2-9 **Configuration Information** and **Digital Component Information** Screen



Line-by-Line Instructions

Configuration Information Area

Project: Enter customer or project name. Maximum 20 characters, no spaces or special characters.

Customer Rep: Enter customer contact person.

Address 1: Enter customer mailing name.

Address 2: Enter customer street address.

Address 3: Enter customer city, state, and zip code.

Country Abbreviation: Enter the abbreviation of the country name; default: USA.

Valid country abbreviations are:

USA	United States
UK	United Kingdom
CAN	Canada
FR	France
GER	Germany
HK	Hong Kong
KOR	Korea
MEX	Mexico
NET	Netherlands
SING	Singapore
SW	Switzerland
TAI	Taiwan

THAI	Thailand
INDO	Indonesia
MAL	Malaysia
AUS	Australia
BRZ	Brazil

Country Name: Automatically filled out from the country abbreviation.

Salesperson: Enter the salesperson's name.

Job #: Enter the job number.

Date: Current date is entered automatically, in mm/dd/yyyy format.

Digital Component Information Area

Digital Control Module: Enter the total number of digital control modules.

Digital Control/Pagination Module: Enter the total number of consolidated digital 40-button pagination modules.

Digital Control/PCD Module: Enter the total number of consolidated digital 60-button PCD modules.

Note The high resolution glass option (the following five items) goes only with Kanji turrets.

High Res. (HR) Control Module: Enter the total number of high resolution glass controller modules.

High Res. Ctrl/Pagination Module: Enter the total number of 40 button high resolution glass controller modules.

High Res. (HR) Control/PCD Module: Enter the total number of 60 button high resolution glass controller modules.

High Res. LCD FTS II 4 Chan. Spkr: Enter the total number of high resolution LCD display FTS II 4 channel speaker modules.

High Res. LCD FTS II 8 Chan. Spkr: Enter the total number of high resolution LCD display FTS II 8 channel speaker modules.

Digital FTS-4: Enter the total number of digital FTS-4 module.

Digital FTS-8: Enter the total number of digital FTS-8 modules.

Inline Monitors: Enter the total number of inline monitor modules (Goldman Speaker (8) module - receive only).

FTS II 4 Chan. Speaker: Enter the total number of FTS II 4 channel speaker modules (ClearDeal).

LCD FTS II 4 Chan. Speaker: Enter the total number of LCD Display FTS II 4 channel speaker modules (ClearDeal).

FTS II 8 Chan. Speaker: Enter the total number of FTS II 8 channel speaker modules (ClearDeal).

LCD FTS II 8 Chan. Speaker: Enter the total number of LCD Display FTS II 8 channel speaker modules (ClearDeal).

Add ON Intercom Mod: Enter the total number of add on intercom modules (hands-free intercom modules).

Add ON Pagination Module: Enter the total number of add on pagination modules.

Remote Turret Interface: Enter the total number (in pairs) of remote turret interfaces (RTIC).

Total # Microphones: Enter the total number of microphones.

Total # Jackboxes: Enter the total number of jackboxes - one per handset.

Note *Separate jackboxes are a good idea even on single-talkpath stations; they allow the trader to switch the handset to either the left or right position.*

Total # Handsets: Enter the total number of handsets (including analog turret handsets).

Notes

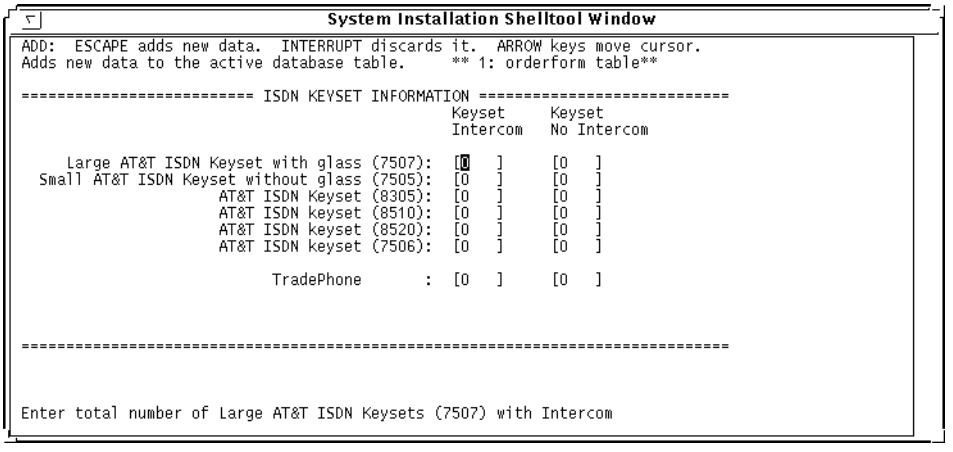
1. The top line of this screen is a revolving menu of commands, called the top-line menu. Use the right arrow key to cycle through the menu. To execute a command immediately, type its first letter, lower case.
2. The second line contains two items:
   - At the left end is a brief description of the currently highlighted command on the top-line menu.
   - At the right end:

     The entry **** 1: orderform table **** informs you that you are in AutoQuote.

     The entry **** 1: configform table **** informs you that you are in SiteMan.
3. When you highlight **Add** and press ENTER; or type **`a,`** the top-line menu is replaced with three commands:
   - **ESCAPE** adds new data. When you have finished entering data on all screens of the order form, and have checked your entries at least once, press ESC to store the information in the database.
   - **INTERRUPT** discards data. To erase all the information you have entered and return to the revolving menu on the first screen of the order form, type **`Ctrl + c`**.
   - **ARROW** keys move the cursor. Use the up and down arrow keys to move the cursor from one data field to the next. Use the left and right arrow keys to move the cursor within a data field.
4. The analog 60-button PCD module can be used in both analog and digital (BRIC) turret configurations.
5. The high resolution control module is also known as the Kanji turret. This unit requires a specific type of System Center. Consult IPC Systems Support Engineering for details.
6. Keep the following points in mind when entering data on this screen and on the **Digital Position Information** screen (also known as the *station screen* — see *Digital Position Information Screen* on page 2-24):
   - The digital component information entered on this screen is related to the information entered on the **Digital Position Information** screen. You can think of the **Digital Component Information** screen as a parts list, whereas the information on the **Digital Position Information** screen is used to configure MSICs.
   - The system is programmed so that the total number of positions specified on the **Digital Position Information** screen cannot exceed the total number of digital control modules specified in the **Digital Component Information** screen (that is, the total of the entries for digital control modules, digital control/pagination modules, digital control/PCD modules, high resolution control modules, and high resolution control/PCD modules). These totals should be the same.
   - Although there is no built-in prohibition, it is advisable that the total number of modules of each type specified on the **Digital Position Information** screen agree with the totals specified on the **Digital Component Information** screen, unless there is a good reason for a difference (for example, the totals might differ if the customer was supplying some of the equipment).
   - The intercoms specifications on this screen of the order are not tied to the entry in the **Speaker Intercom Channels** column on the System Configuration screen (see *System Configuration Screen* on page 2-17).
7. When you have finished entering the data, check each entry to verify that it is correct. Extra time spent now getting the input data 100% accurate will save time later making corrections.

ISDN Keyset Information Screen

FIGURE 2-10 ISDN Keyset Information



Line-by-Line Instructions

Note *Be sure to put keyset information into the correct column - Intercom or No Intercom.*

Large AT&T ISDN keyset with glass (7507): Enter the total number of AT&T ISDN 7507 keysets.

Small AT&T ISDN Keyset without glass (7505): Enter the total number of AT&T ISDN 7505 keysets.

AT&T ISDN Keyset (8503): Enter the total number of AT&T ISDN 8503 keysets (3 button keyset).

AT&T ISDN Keyset (8510): Enter the total number of AT&T ISDN 8510 keysets (10 button keyset).

AT&T ISDN Keyset (8520): Enter the total number of AT&T ISDN 8520 keysets (20 button keyset).

AT&T ISDN Keyset (7506): Enter the total number of AT&T ISDN 7506 keyset.

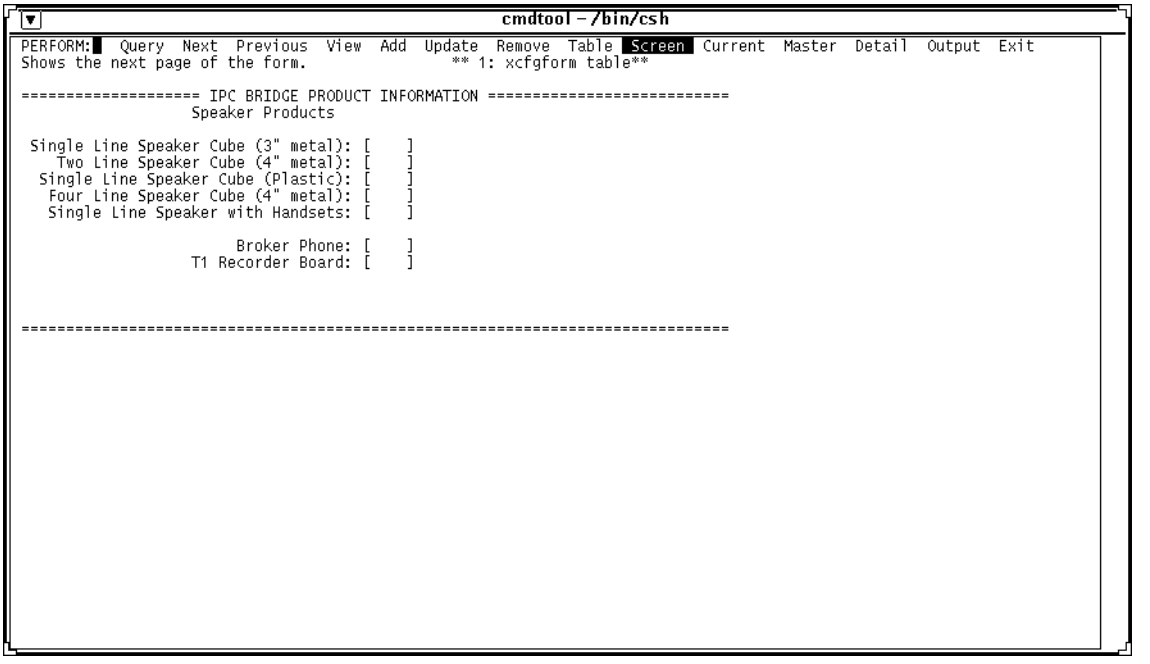
IPC Keyset: Enter the total number of IPC keysets (TradePhone MXs).

Notes

1. The keyset intercoms specified here have nothing to do with the speaker intercoms specified in the **Speaker Intercom Channels** column on the System Configuration screen (see *System Configuration Screen* on page 2-17). You can specify keysets with intercom on this sheet, and specify no speaker intercom channels on the **System Configuration** screen.
2. Starting with Release 11.1, new installations use the IPC TradePhone MX, not an AT&T keyset.
3. Starting with Release 11.1, all AT&T keysets except for the 8510 and 8520 are obsolete, and are not supported.
4. Each BRIC can support up to 10 ISDN keysets using the US, UK, or AUS country base.
5. Keysets with intercom have the hands-free intercom feature.

IPC Bridge Product Information Screen

FIGURE 2-11 IPC Bridge Product Information



Line-by-Line Instructions

Single Line Speaker Cube (3" metal): Enter the total number of single-line speaker cubes.

Two Line Speaker Cube (4" metal): Enter the total number of two line speaker cubes.

Single Line Speaker Cube (Plastic): Enter the total number of plastic single-line speaker cubes.

Four Line Speaker Cube (4" metal): Enter the total number of four-line speaker cubes.

Single Line Speaker with Handsets: Enter the total number of single-line speaker cubes with handsets.

Broker Phone: Enter the total number broker phones.

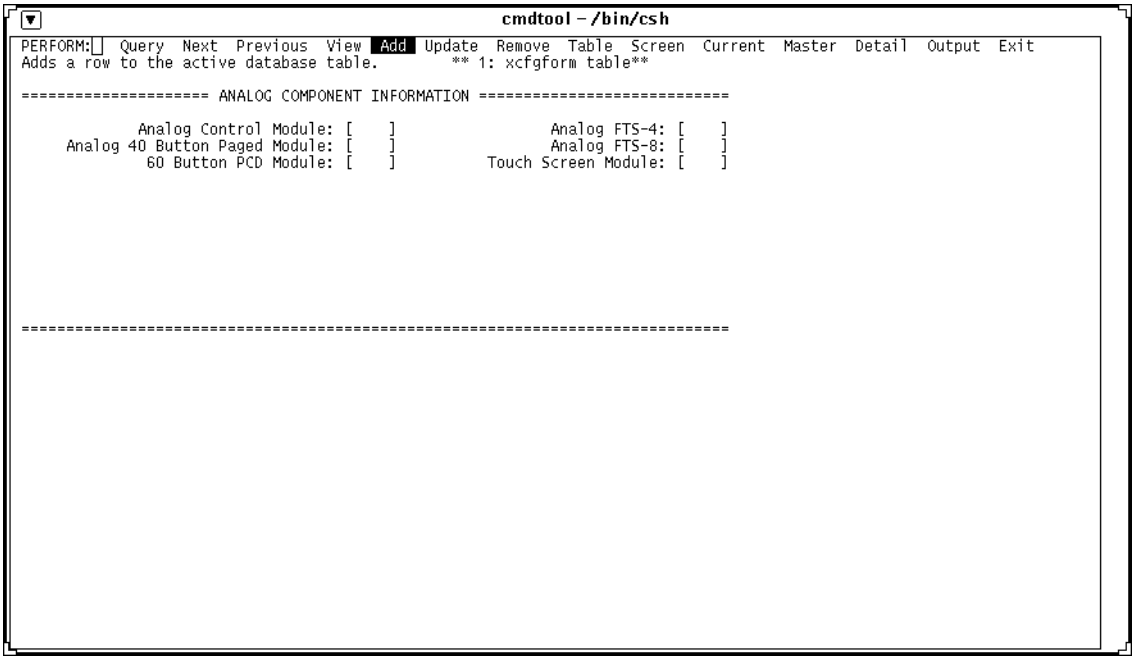
T1 Recorder Board: Enter the total number of T1 recorder boards.

Notes

- Like handsets and jackboxes, IPC Bridge speakers have no effect on system layout.
- The entries on this screen need not be consistent with the total number of speakers specified on the **System Configuration** screen. This screen is in effect a parts list, providing order information; the information on the **System Configuration** screen is used to configure MSICs.

Analog Component Information Screen

FIGURE 2-12 Analog Component Information Screen



Line-by-Line Instructions

Analog Control Modules: Enter the total number of analog control modules (Tradenet).

Analog 40 Button Paged Module: Enter the total number of analog 40-button EL pagination modules (Tradenet).

60 Button PCD Module: Enter the total number of analog 60-button PCD modules (Tradenet).

Note The 60 Button PCD module can also be used on digital turrets as an external PCD module.

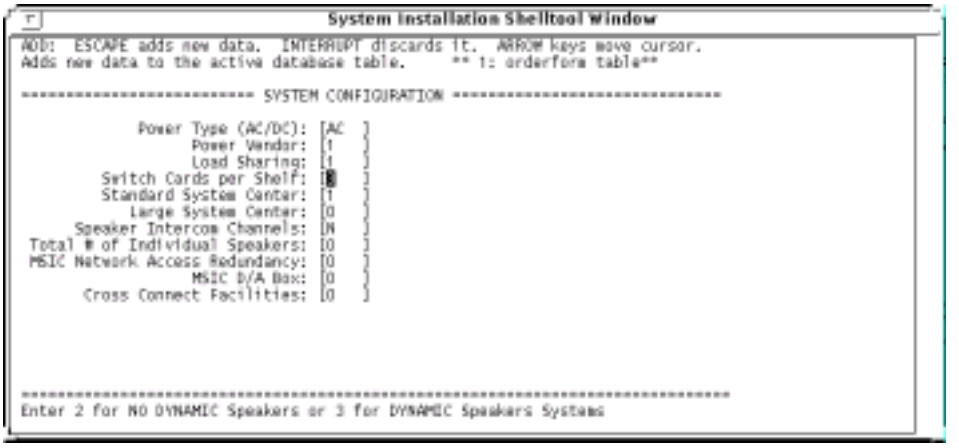
Analog FTS-4: Enter the total number of analog FTS-4 speaker modules (Tradenet).

Analog FTS-8: Enter the total number of analog FTS-8 speaker modules (Tradenet).

Touch Screen Module: Enter the total number of touch screen modules (Tradenet).

System Configuration Screen

FIGURE 2-13 System Configuration Screen



The System Configuration sheet is probably the most important of the sheets that make up the SiteMan order form. Each of the values set here with the exception of the *System Center* option can have a major impact on system size and cost.

Line-by-Line Instructions

Power Type (AC/DC): Enter the type of power, AC or DC. The default is AC.

Power Vendor: Enter the power vendor.

- 1 is KEPCO (AC only).
- 2 is HC Power (AC/DC).
- 3 Uni-Power (DC only).

The default is 1, KEPCO.

Load Sharing: Power supply load sharing can be set to **0** for none or **1** for N+1. The default is 1 (N+1); this value should always be used. This can either be set to a value of N+1 for N+1 redundancy, or 2 for N+2 redundancy.

Switch Cards per Shelf: Enter the number of switch element (SELC) cards per shelf. Can be set for **2** or **3**. 2 = N+1 and 3 = N+2. The default is 3 (N+2). With speakers, a 3 (N+2) is recommended. N+1 is also referred to as 4 plane and N+2 as 6 plane. N+2 traffic is set to 195 erlangs and N+1 at 90 erlangs. specifies the number of access switches or switch element cards that will be used in each TU shelf.

The entry for Switch Cards per Shelf controls whether the system is quoted as redundant (N+1) or non-redundant. Type **2** to specify a non-redundant system; type **3** to specify a redundant system. Setting this to a value of 3 allows the population of a TU shelf to a maximum traffic figure of 195 erlangs. Setting this to a value of 2 allows the population of a TU shelf to a maximum traffic figure of 90 erlangs.

Standard System Center and Large System Center: The standard System Center is recommended for systems up to one full triplet; the large System Center is recommended for systems larger than one full triplet. The following table details the various System Center hardware options and the software version that each supports.

TABLE 2-1 System Center Configurations

Supported SPARCstations	Release	System Size
SPARCstation 5 (all speeds) with 64 MB of RAM (minimum)	Release 11.1 and earlier	Compact systems
SPARCstation 5 (all speeds) with 96 MB of RAM (minimum)	Release 11.1 and earlier	1–500 positions
SPARCstation 5 (all speeds) with 128 MB of RAM (minimum)	Release 11.1 and earlier	501–1000 positions
SPARCstation 5 (all speeds) with 160 MB of RAM (minimum)	Release 11.1 and earlier	more than 1000 positions
SPARCstation 20 with 64 MB of RAM (minimum)	Release 11.1 and earlier	Compact systems
SPARCstation 20 with 96 MB of RAM (minimum)	Release 11.1 and earlier	1–500 positions
SPARCstation 20 with 128 MB of RAM (minimum)	Release 11.1 and earlier	501–1000 positions
SPARCstation 20 with 160 MB of RAM (minimum)	Release 11.1 and earlier	more than 1000 positions
SPARCstation 10	Release 10.1 and earlier	
SPARCstation Classic	Release 9.2 and earlier	
SPARCstation IPC with SunOS 4.1.3	Release 9.2 and earlier	

Speaker Intercom Channels: Enter **y** or **n** for system availability of Intercom channels. The default is **n**. This entry must be **y** if you have intercom on keysets, FTS or hands-free modules.

Total # of Individual Speakers: Enter the total number of remote speakers (MSIC speakers).

MSIC Network Access Redundancy: Enter the redundancy for the MSIC network, **0** or **1**. A 0 means no redundancy (speaker channels = 84). A 1 sets redundancy to N+1 (speaker channels = 56). If switch cards per shelf is set to 2, then no redundancy = 56 spkr channels and N+1 = 28 spkr channels.

MSIC D/A Box: Enter the total number of D/A boxes to be used with MSIC. 1 D/A per 24 channels; 5 per MSIC.

Notes

- Although Intercom Channels are programmed in SiteMan, they are still a cost option and will have to be activated by running the FeatureMan on the final released database.
- The combination of a DC-powered system (**Power Type** of **DC**) and HC power (**Power Vendor** of **2**) is not supported because IPC no longer manufactures the single-rail DC system. The replacement for a DC power system is unipower (**Power Vendor** of **3**).
- If no D/A boxes are specified, a minimum number is calculated (based upon the number of individual speakers specified) and this number is inserted in the report. A warning message is issued. The lack of a D/A box input has no effect on the configuration of a valid database.

Line Information Screen

FIGURE 2-14 Line Information Screen

Line-by-Line Instructions

Common Battery Lines: Enter the total number of dialtone or autoringdown lines, in increments of 10.

Private Lines: Enter the total number of manual private lines (manual ringdowns), in increments of 10.

Series 2 Interworking Dialtone Lines: Enter the total number of SII dialtone lines bridged to Tradenet MX, in increments of 10.

Series 2 Interworking Private Lines: Enter the total number of SII private lines bridged to Tradenet MX, in increments of 10.

T1 facilities: Enter the total number of T1 facilities.

E1 facilities (CAS): Enter the total number of E1 facilities.

E1 and T1 facilities should be assigned one per channel bank or CAS pipe.

US primary rate facilities: Enter the total number of US primary rate facilities. Not currently available

European primary rate facilities: Enter the total number of European primary rate facilities.

DASC primary rate facilities without DDI: Enter the total number of DASC (UK) primary rate facilities.

4 - Wire: Enter the total number of 4-wire lines, in increments of 5.

Semi-Dynamic Channels: Enter the total number of semi-dynamic (hoot) channels to be used by the system. Maximum is 31 channels. This is the number of channels that will be assigned to the hoot pool.

CGEN Options:

- traffic: For Engineering Department use only.
- statistics: Lists the traffic information and the number of TUs assigned during the running of CGEN.
- nosplitchns: Configures systems without split channels. Not used.
- networkfor: For Engineering Department use only.
- stic64: Allows 64 speakers per STIC instead of 56, or no redundancy.

Notes

1. Assign tandem ports (which are programmable speaker ports) in increments of 10.
2. The total number of semi-dynamic channels represents the number of speaker channels per BSIC that will be reserved for lines from the system-wide hoot pool (not the number of semi-dynamic speakers per turret position).

Note *Each BSIC in an MX System can facilitate a total or 31 unique speaker channels. This means that the total number of intercom channels, dynamic channels and unique semi-dynamic channels assigned to stations on a BSIC cannot exceed 31.*

3. The total number of semi-dynamic (hoot) lines represents the total number of lines in the system-wide hoot pool, not the number of hoot speakers per module. If you are using four-wire line cards for semi-dynamic circuits, there should be five lines in the hoot pool for each four-wire line card in the system.
4. The implementation of semi-dynamic channels (hoots) makes better use of bandwidth. Enter at least **1** into the Semi-Dynamic Channels field.
5. The last field on this screen is **CGEN Options**. There are three different levels of CGEN Options available in the SiteMan order form:

Level 1

These options can be used at the discretion of the branch office.

traffic, **statistics**, **nosplitchns**, **networkfor**, and **stic64**, are explained below.

Traffic

If you select the Traffic option, you can override the default traffic values for a TU. These default values are:

TU traffic	a standard value for all TUs in the system: the total traffic that can be handled by each TU, in Erlangs	1.0000
Line traffic	a standard value for all lines in the system: the total traffic that can be handled by each line, in Erlangs	6.000
ATP traffic	a standard value for alternate talk path traffic in the system: the total traffic that can be handled by each handset, in Erlangs	0.1000
Four-wire traffic	a standard value for all four-wire circuits in the system: the total traffic that can be handled by each circuit, in Erlangs	6.000
Keyset traffic	a standard value for each keyset in the system: the total traffic that can be handled by each keyset, in Erlangs	1.000

Statistics

During the running of CGEN, provides the number of TUs assigned, and the traffic on each TU.

Nosplitchns

Configures a system without using split channels.

Networkfor
Configures an MX network beyond the nominal hardware requirements. System size is based on the number of TUs, in the range 11 – 120. for example, the entry **`network4 20`** instructs DataMan to configure an MX System that supports 20 TUs.

Stic64
Allows 64 speakers per STIC instead of 56, or no redundancy.

Level 2
These options should only be used under the supervision of either Engineering or Marketing.

Traffic
Allows the alteration of the system wide traffic calculation factors.

Not4limit
Allows systems larger than four triplets to be built.

Level 3
These options are used only by engineering.

Debug
Used for evaluating CGEN during its data population execution.

Makit
Used to overpopulate the number of stations assigned to a BRIC.

Traffic Considerations
The first time AutoQuote is run on a particular project, type **`traffic`**. This enables you to specify traffic levels; then AutoQuote designs the most economical system configuration that satisfies the traffic demand. In all cases, specify the following:

- Set the level for alternate handset to 0.
- Set the level for maximum traffic per terminal unit (TU), using the table below to determine the value entered for TU traffic depending on the redundancy option that the customer chooses.

For planning purposes, the normal traffic value for a Tradenet MX System is 195 Erlangs. If necessary to meet the requirements of a particular customer, AutoQuote can be run using two other values: 90 Erlangs, and 295 Erlangs.

Under special circumstances, the planner can manually enter still other traffic values in the attempt to identify the optimal configuration of system hardware.

Warning!	***Unless you are trained and experienced in traffic planning, do not use a traffic value other than 195 Erlangs.***

In addition to the amount of traffic in Erlangs, traffic planning involves two other factors:

1. the number of switch element cards (SELCs) per terminal unit, two or three
2. whether or not the system is to provide redundancy (this is normally a customer decision)

The interaction of these factors is illustrated in the table below.

TABLE 2-2 Traffic Planning Factors

System	Traffic Value in Erlangs	Number of SELCs per TU	Redundancy
1	90.0	2	N+1
2	195.0	3	N+1
3	195.0	2	
4	295.0	3	

In this table:

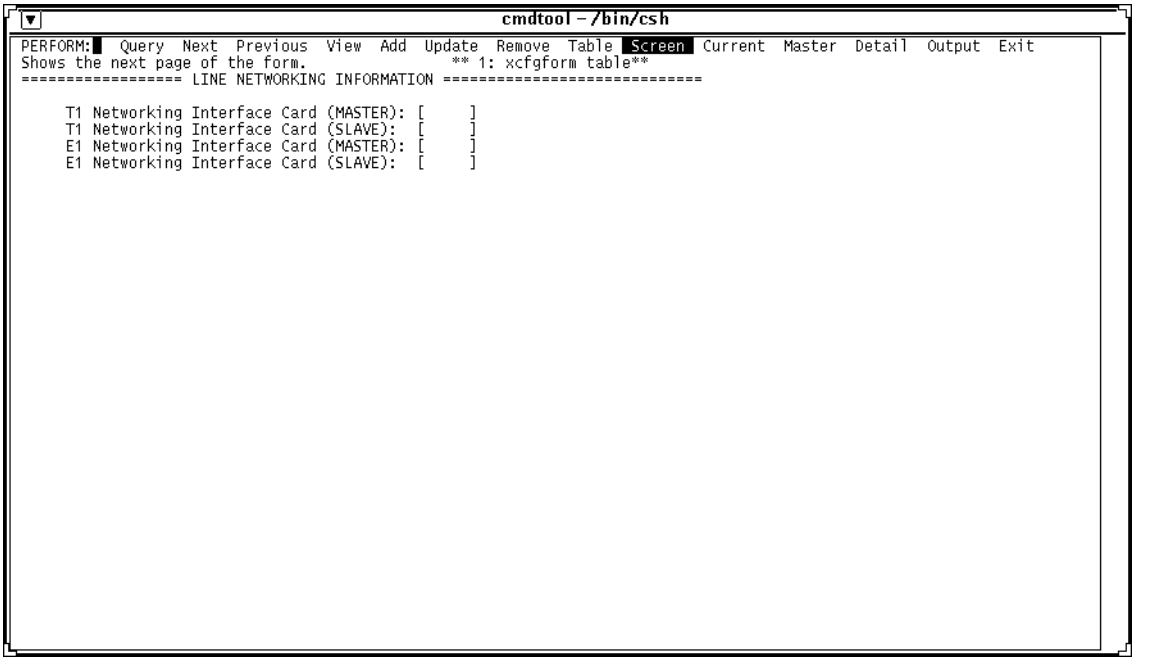
1. System 1 provides redundancy. It is equipped with one more SELC than is required for the traffic load, in this case 90 Erlangs. If one of the SELCs fails, system 1 will continue to handle 90 Erlangs.
2. System 2 also provides redundancy. If one of its three SELCs fails, system 2 will continue to handle 195 Erlangs.
3. System 3 does not provide redundancy. If one of its two SELCs fails, system 3 will no longer be able to handle 195 Erlangs; a percentage of calls will be blocked.
4. System 4 also does not provide redundancy. If one of its three SELCs fails, system 3 will no longer be able to handle 295 Erlangs; a percentage of calls will be blocked.

Note *On a first run, do not specify any TU traffic value other than 95, 195, or 295. On subsequent runs, type* **`traffic statistics`** *as the CGEN options.*

Note *These considerations do not apply to the Compact Tradenet MX System. When planning a Compact system, you can enter any set of line and station requirements. AutoQuote designs a system accordingly. However, it does not alert you to a potential blocking condition.*

Line Networking Information Screen

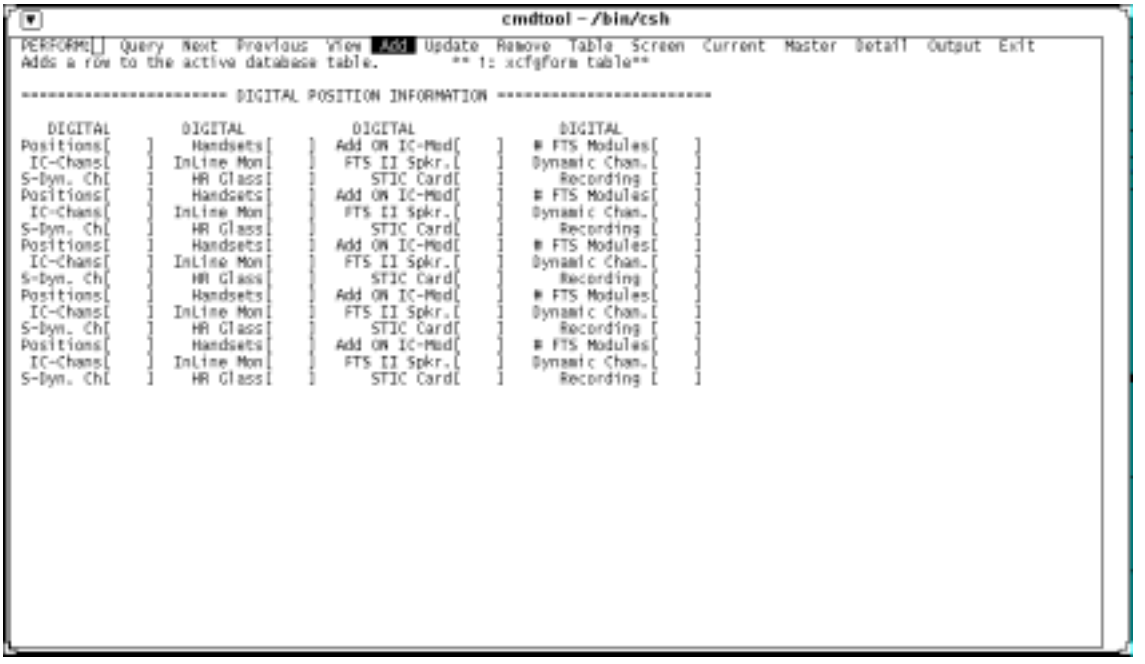
FIGURE 2-15 Line Networking Information Screen



- **T1 Networking Interface Card (MASTER):** Enter the total number of master T1 Interworking interface cards.
- **T1 Networking Interface Card (SLAVE):** Enter the total number of slave T1 Interworking interface cards.
- **E1 Networking Interface Card (MASTER):** Enter the total number of master E1 Interworking interface cards.
- **E1 Networking Interface Card (SLAVE):** Enter the total number of slave E1 Interworking interface cards.
- If you are using line networking, on this screen specify the number of T1/E1 networking slave cards in your system. The present application of the line networking feature uses only slave cards, not master cards.

Digital Position Information Screen

FIGURE 2-16 Digital Position Information Screen



Line-by-Line Instructions

Positions: Enter the total number of digital positions using this configuration.

Handsets: Enter the number of handsets for these positions. 0, 1 or 2.

Add on IC-Mod: Enter the number of add on intercom modules (hands-free modules) for these positions, **0** or **1**. Note that a hands free module uses the extra B channel when it is available.

 # FTS Modules: Enter the total number of FTS modules for these positions, 0, 1, 2, 3, 4.

IC-Chans: Enter the number of Intercom Channels on speakers for these positions, 0 or 1.

Note *You cannot specify both an add-on IC module and an IC-channel. If you specify an add-on IC module, then specify an IC-channel, the specification for the add-on IC module defaults to 0.*

Speaker intercom channels can be **y** only if the specification for add-on IC module is **0**.

InLine Mon: Enter the number of inline monitors (Goldman speakers) for these positions, 0, 1, 2.

FTS II Spkr: Enter the total number of FTS II (ClearDeal) modules for these positions, 0, 1, 2, 3, 4. Note: you can not mix FTS and FTS II on the same position.

Dynamic Chan: Enter the number of dynamic channels for the position.

S-Dyn. Ch: Enter the number of semi-dynamic (hoot) channels for the position.

HR Glass: Enter **y** or **n** for the use of high resolution glass at this station. HR Glass is for the Kanji turret (Special System Center Requirement).

Note *Note: You must have specified high resolution modules.*

STIC Card: Enter **y** or **n** for the use of STIC cards at this station.

Recording: Enter the type of recording. 1 = none and 2 = handsets and speakers. Used only if using a STIC.

ICM + Dynamic channels + Semi-dynamic channels = total number of speaker channels.

Notes

1. Two screens are provided for information on up to 10 configurations for digital positions. Three rows are devoted to each configuration.
2. To minimize the cost of the configured system, both dynamic and semi-dynamic speaker channels should be assigned to each turret. For example, a turret with an eight channel FTS or ClearDeal speaker should be assigned six dynamic channels and two semi-dynamic channels. The table below specifies the number of semi-dynamic and dynamic speaker channels for each turret configuration, for sites that do not have heavy speaker usage.

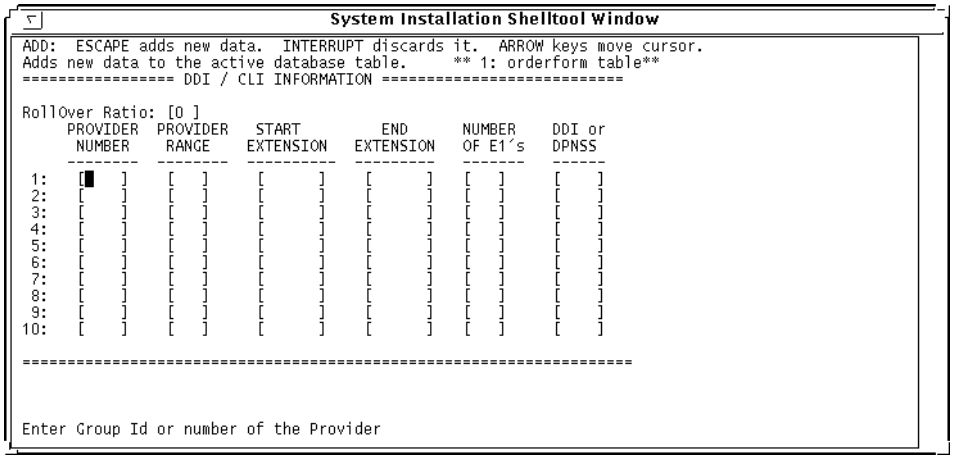
TABLE 2-3 Provision of Speaker Channels.

Speaker Channel Configuration	Dynamic Channels	Semi-Dynamic Channels
Turret w/ 1 FTS4	**3**	**1**
Turret w/ 1 FTS8	**6**	**2**
Turret w/ 1 FTS4 & 1FTS8	**9**	**3**
Turret w/ 2 FTS8	**12**	**4**

3. The system does not permit you to specify more positions than were specified in the Digital Component Information section on the first screen of the order form.
4. List configurations from largest to smallest, in terms of number of speakers, speaker channels and handsets.
5. This screen of the order form will not allow you to enter in more positions than were specified on screen one of the order form.

DPI/CLI/DPNSS Information Screen

FIGURE 2-17 DDI/CLI Information Screen



Line-by-Line Instructions

RollOver Ratio: Enter the rollover ratio for the DDI cards.

PROVIDER NUMBER: Enter the group Id or number of the provider

PROVIDER RANGE: Enter the provider range Id.

START EXTENSION: Enter the start of extension number block for the given provider.

END EXTENSION: Enter the end of extension number block for the given provider.

NUMBER OF E1's: Enter the number of primary rate cards for the given provider.

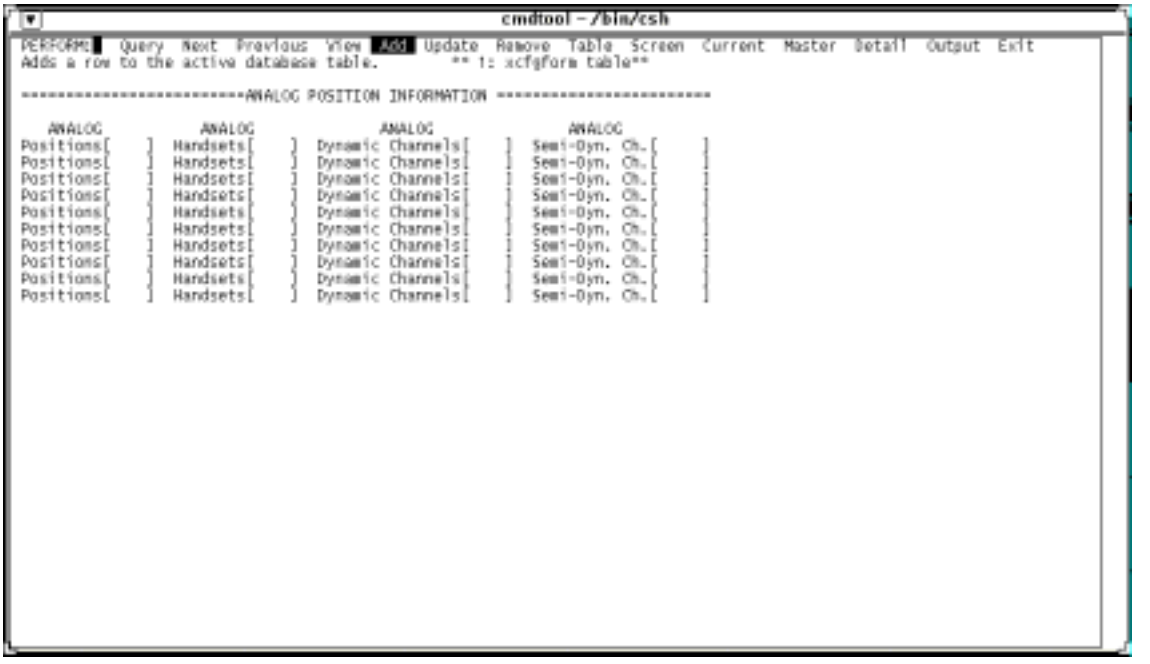
DDI or DPNSS: Enter the extension type: DDI = 1 and DPNSS = 2.

Notes

- A system can have up to 10 providers groups. Each group can provide trunks for up to 10 DDI cards, for a maximum of 300 physical channels.
- The maximum recommended ratio of physical channels to the numbers (extensions) used to address them is 1:5. Therefore, the maximum extensions for 300 physical lines is 1500.
- A system can support up to 4000 vLacs used to associate physical lines to the extensions. Do not exceed 4000 extensions across an entire DDI service if you want each DDI extension to have a unique presentation. If you are on a network, the 4000 vLac maximum is decreased by the number of vLacs assigned for networking.

Analog Position Information Screen

FIGURE 2-18 Analog Position Information Screen



Line-by-Line Instructions

Positions: Enter the number of analog positions (Tradenet)

Handsets: Enter the number of handsets for these positions. 0, 1 or 2.

Dynamic Channels: Enter the number of dynamic channels for these positions. 0 to 10.

Semi-Dyn. Ch: Not applicable for analog positions.

Notes

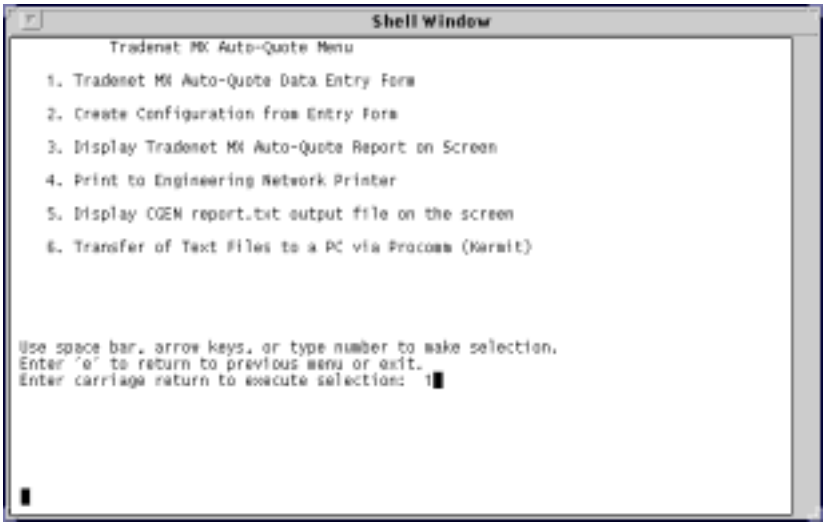
1. Follow the same procedures as for digital positions.
2. Do not assign semi-dynamic channels to analog speakers.
3. When you leave the last field on this screen, you ENTER to the first screen of the order form.

Generate a Configuration

1. When you have finished checking the data, press **Esc** to add the new data to the database.
2. To exit from AutoQuote; you can either:
   - Type **e** and press ENTER.
   - Highlight **Exit** on the top line menu, press ENTER; press ENTER again.

You see the **Tradenet MX AutoQuote** menu:

FIGURE 2-19 Tradenet MX AutoQuote Menu



3. Select option 2, Create Configuration from Entry Form; press ENTER.
4. Type the trial project name; press ENTER. The system generates the new equipment configuration.

Note *The trial project name is case sensitive; it must be typed exactly as it appears on the screen.*

If you have created a new configuration, AutoQuote begins displaying a traffic report, and pauses to let you specify traffic values:

- Set the level for maximum TU traffic, using the table below to determine the value, depending on the redundancy option that the customer chooses. Enter the value; press ENTER.

TABLE 2-4 Maximum TU Traffic Values

N+1 Redundancy	# of SELC Cards/TU	Traffic Value
Yes	**2**	**95.0**
Yes	**3**	**195.0**
No	**2**	**195.0**
No	**3**	**295.0**

- Set the level for alternate handset to 0.

You see the Tradenet MX AutoQuote menu.

You can:

- Select item 3 or item 5 to display the AutoQuote Customer Information report on the screen.
  Item 3, **Display Tradenet MX AutoQuote Report On Screen**, is arranged in a formal format; select this item if you plan to print out a copy to add to a quote. Press ENTER to scroll down through the report a line at a time. Press the space bar to scroll down a page at a time.
  Item 5, **Display CGEN report.txt output file on the screen**, is arranged more informally; select this item if you plan to reenter data for another run of AutoQuote.
- Select item 4 to print a copy of the report.

5. Review the data carefully. You can change values and make another run to calculate the effects of the changes. Repeat this process until you are satisfied that you have arrived at the optimal configuration (that is, the configuration that provides the most performance with the least hardware).

COMPACT SYSTEM AUTOQUOTE

AutoQuote works in essentially the same way for a Compact system as for a standard system.

Differences between a Compact system and a standard system:

- The Compact system has a single AC fan on top of the cabinet.
- The Compact system is not alarmed.
- The Compact system uses different power supplies that are also not alarmed.
- The Compact system can be built without redundancy.

Note *You cannot use a database created for a Compact system and modify it for a standard system — you must build the standard database from scratch.*

To configure a Compact system, start AutoQuote as described in *Start AutoQuote* on page 2-6. Display the AutoQuote welcome screen, then take the following steps:

1. Press ENTER on the AutoQuote welcome screen. You see the Tradenet MX AutoQuote System menu, which is shown in the figure below.

FIGURE 2-20 Tradenet MX AutoQuote System Menu

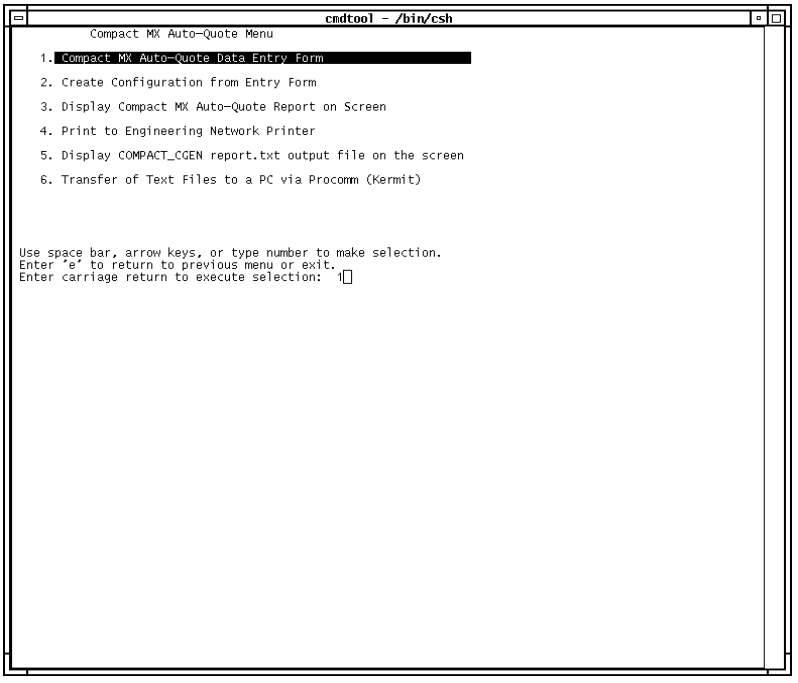
2. Type **2**; press ENTER to select the Compact system AutoQuote option. You see the Compact AutoQuote System menu.

FIGURE 2-21 COMPACT AUTOQUOTE SYSTEM Menu

3. If you are creating a new project, type **2**; press ENTER.
4. Type a name for the new project; press ENTER.

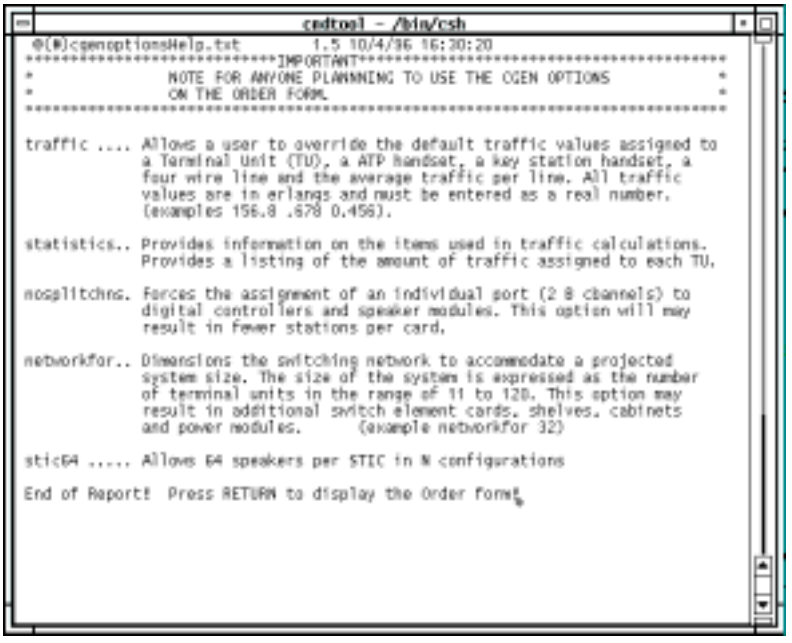
You see the following AutoQuote menu:

FIGURE 2-22 Compact MX AutoQuote menu



5. Select option 1, **Tradenet MX AutoQuote Data Entry Form**; press ENTER. You see notes about the use of CGEN options with the order form:

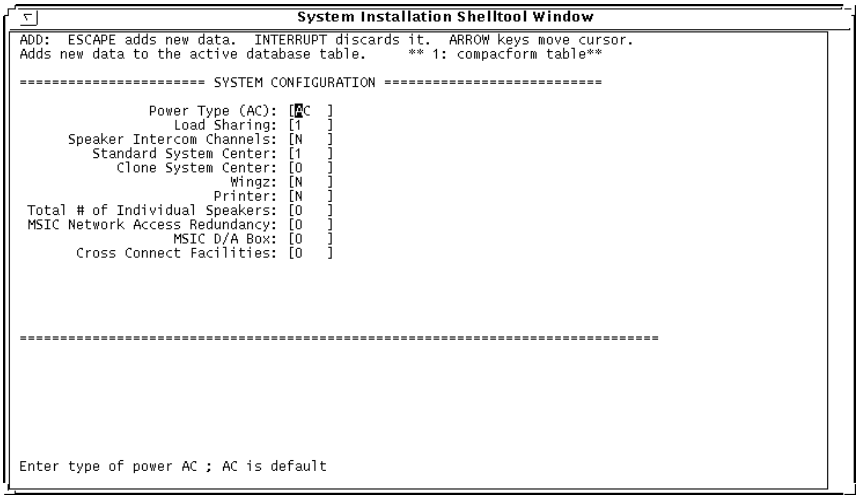
FIGURE 2-23 CGEN Options.



CGEN options are selected on the Line Information screen of the order form. See *Line Information Screen* on page 2-19. When you press ENTER, you see the first screen of the order form.

The only order form screen that is different for a Compact system is the System Configuration screen (below).

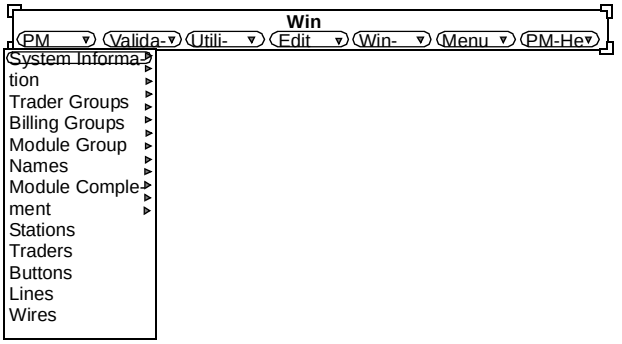
FIGURE 2-24 Configuration Screen, Compact System



The data entries on this screen are as follows:

1. **Power Type (AC/DC):** Can be either AC or DC
2. **Load Sharing:** The power supply redundancy. Type **1** to specify a N+1 redundancy; type **2** to specify (n+2) redundancy.
3. **Speaker Intercom Channels:**
4. **Standard System Center:**
5. **Clone System Center:**
6. **Wingz:**
7. **Printer:**
8. **Total # of Individual Speakers:**
9. **MSIC Network Access Redundancy:**
10. **MSIC D/A Box:**
11. **Cross Connect Facilities:**

Chapter 3 Creating a Database



INTRODUCTION

This chapter contains the step-by-step procedure for creating a database, using SiteMan and CustMan.

CustMan, which uses Wingz, can be run on both the Sun SPARCstation (UNIX platform) and on the DOS Windows platform. SiteMan, which uses Informix, can be run only on the Sun SPARCstation (UNIX platform). For more details on hardware requirements, consult IPC Systems Support Engineering.

After logging in at a SPARCstation as *sm* or *install*, you are operating in an X-windows environment known as OpenLook or Open Windows (OpenLook is the name of the program). Here you can open a shell tool window or a command tool window.

Note *The only difference between these two windows is that in a command tool window you can scroll forward and backward; in a shell tool window you cannot. In either window you can enter command line entries similar to those found in DOS. Since scrolling is an important convenience, it is recommended that you use command tools.*

To open a command tool window, right click on the background to open a menu; then select **Windows** from the pick list with your right mouse button. Finally select **Command Tool** with the right menu button. A command tool window opens and defaults to the **/usr/sx/db** directory.

Note *Never close a shell tool or command tool window if there is a program still running in it. Also do not log out of the SPARCstation if Wingz, AutoQuote, or SiteMan is running.*

SiteMan Overview

You use SiteMan to create a parts list of hardware that will be used to build the customer's Tradenet MX system. SiteMan uses the order form and hardware configurator (CGEN) used in AutoQuote to produce a skeleton database. It then merges the skeleton with the customer data recorded in CustMan to produce a releaseable database. You can also use SiteMan to:

- run the same reports that are available in the System Center
- access the System Center Data View used by the System Center
- access CustMan

You can revise the entries in the SiteMan order form and the CustMan spreadsheets as often as necessary before running the merge process.

CustMan Overview

CustMan is a spreadsheet interface comprising 13 spreadsheets, which are known as the PM spreadsheets.

As with any spreadsheet application, you can put any information in just about any cell. There is no background task running that will stop you from entering in a mistake. The problems come later when you try to merge bad data into your database, using SiteMan. You should be very careful to enter both the right kind of data, and the right values. In every column of the CustMan spreadsheet is a title, which identifies:

- what information is to be placed in that column
- the number of characters
- the type of characters (numeric or alphanumeric)

Spaces count as characters. No character string can have either a leading or a trailing space, including the eight character descriptors of the analog and digital turrets. The following characters cannot be used in CustMan: pipe (|), single and double quotation marks (‘’, “”), and parentheses (). The use of any of these can cause not only loss of data but also corruption of your database.

You will want to become proficient at using the Cut, Copy, Paste, Open, and Front keys of your SPARCstation keyboard. In addition, you will want to learn how to use the optical three button mouse.

- The left key or *select* key is for selecting cells.
- The middle key or *adjust* key is for selecting groups of cells.
- The right or *menu* key is used for making your selections from the Wingz and Wingz/CustMan menu bars.

Each SPARCstation is shipped with Select, Adjust and Menu decals for the mouse. These features become an invaluable tool in creating databases quickly.

In CustMan you will find that some columns require a selection from a *pick list* in a dialog box. The pick list is a set of valid entries for that column. These entries should never be typed; they *must* be selected from the list. The misspelling of a name from a dialog box might and in most cases will corrupt your database. These dialog boxes can be found under the **PM-HELP** menu for that sheet.

Another useful CustMan feature is the *accelerator keys*. An accelerator key is a keyboard sequence that can be used instead of selecting an item from a pull-down menu. Learning at least some of the accelerator keys can speed up your time in the building of a database. See *Accelerator Keys (Keyboard Shortcuts)* on page 5-5.

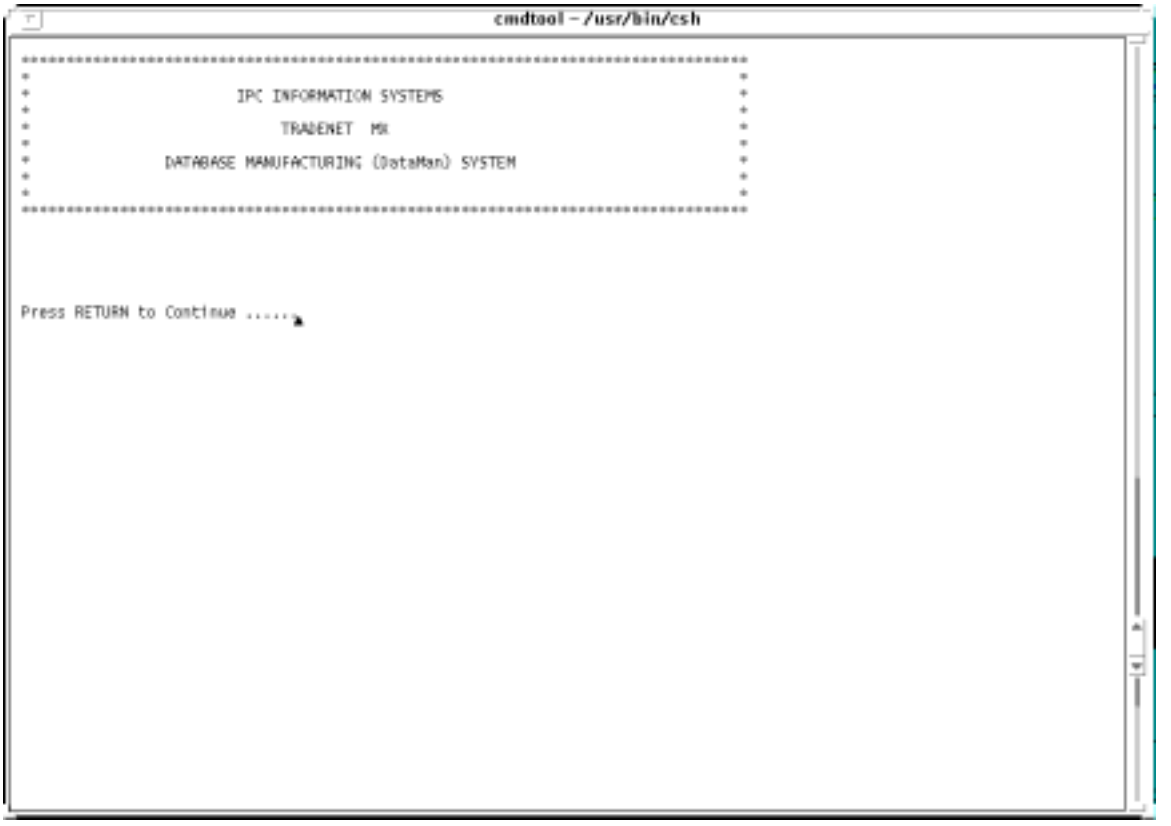
Finally, there are a number of useful utilities in CustMan that make the task of massive data entry easy. These are described in *CustMan Utilities* on page 4-1.

CREATING A DATABASE

To create a database, take the following steps:

1. Assemble all available information about the customer site, including the AutoQuote printout.
2. Power up the SPARCstation.
3. Use local procedures to log in as **install**. The system starts the OpenWindows application and opens three windows: a clock, a system console, and the **System Installation Shelltool** window.
4. Move the console to the top of the screen.
5. Quit the **System Installation Shelltool** window and reduce the clock to an icon**.**
6. Open a command tool and then enlarge the window.
7. At the **syscen:/usr/sx/db>** prompt type **`cd /usr/sx/db/dataman/site_man`**; press ENTER.
8. At the **syscen:/usr/sx/db/dataman/site_man>** prompt type **`dataman`**; press ENTER. The system displays the DataMan welcome screen.

FIGURE 3-1 DataMan Welcome Screen



STANDARD TRADENET MX SYSTEM

This section describes the design of a standard Tradenet MX System. The design of a Compact System is essentially the same. See*Compact System AutoQuote* on page 2-30.

Warning! ***If you are working with a Compact System, do not use SiteMan Release 9.2.4 or earlier. Upgrade to SiteMan (w/CustMan), part number A-00372-0-09-02-05. (There is no problem in Autoquote.)***

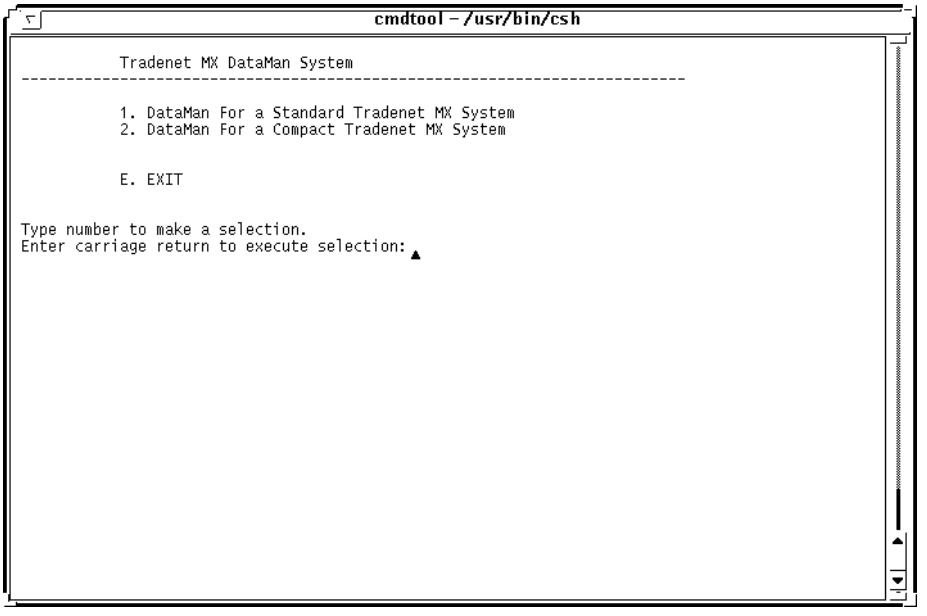
Display the Order Form

The first step is to display the order form. The procedure:

1. Press ENTER on the Tradenet MX welcome screen. You see the Tradenet MX DataMan System menu, which is shown in the figure below.

Note *Select an option by using the space bar or the arrow keys, or by typing an entry.*

FIGURE 3-2 Tradenet MX AutoQuote System Menu



2. Type **1**: press ENTER to select the **Standard System AutoQuote** option. You see the **DATA MANUFACTURING** menu:

FIGURE 3-3 Data Manufacturing Menu

This menu contains four options:

a. Access an existing project, listed on the pick list.

b. Create a new project. A project name can be no longer than 20 characters, and cannot contain spaces or special characters such as slashes. The name specified here appears as the **Customer Company** title in the **i_system_data** spreadsheet in the Tradenet MX System Center.

c. Delete a project.

d. Copy an existing project, to use as the basis for a new project. If you wish to use an old project from a previous version of SiteMan or CustMan you must run choice number four on that project first. This will insure that both the order form and the CustMan sheets are current.

3. If you are creating a new project, type **2**; press ENTER.

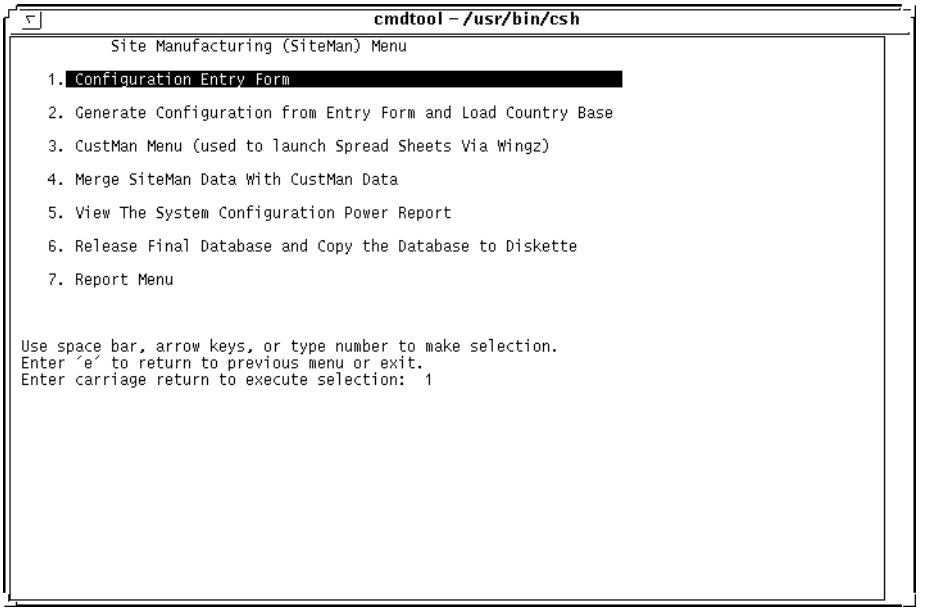
4. Type a name for the new project; press ENTER.

Note *Entries on the AutoQuote menus are case sensitive. Once you have created a project name, you must type the name in exactly the same way each time you reopen the project.*

FIGURE 3-4 Database Manufacturing (DataMan) Menu

5. Select item 1, then press ENTER. The system creates a location for the project, then displays the **Site Manufacturing (SiteMan) Menu**.

FIGURE 3-5 Site Manufacturing (SiteMan) Menu



The menu items are:

a. The order form: a list of facilities required for this site. These includes types and quantities of lines and station equipment. Also included are questions on power redundancy and type of power (AC or DC).

b. CGEN, which takes the information that was entered into the order form and produces a skeleton of a database.

c. Opens CustMan, the customer-specific data entry forms.

d. Merges the output from CGEN and the output of CustMan to create the final database.

e. Provides a detailed report of system power requirements, including input power requirements and the total number of power supplies that will be needed.

f. Releases the final database to a high density 3.5 inch floppy.

g. This option has two functions:

- Link you to the same type of reports menu that are found in the MX System Center.
- Display the orphan reports produced during the merge process.

6. Select option 1, **Configuration Entry Form**; press ENTER twice. If you see the message **Form image too large to fit in the screen window**, enlarge the window and try again. You see the first screen of the order form.

The order form screens are illustrated and described on the following pages.

Enter the information provided, for example, by the Sales Department.

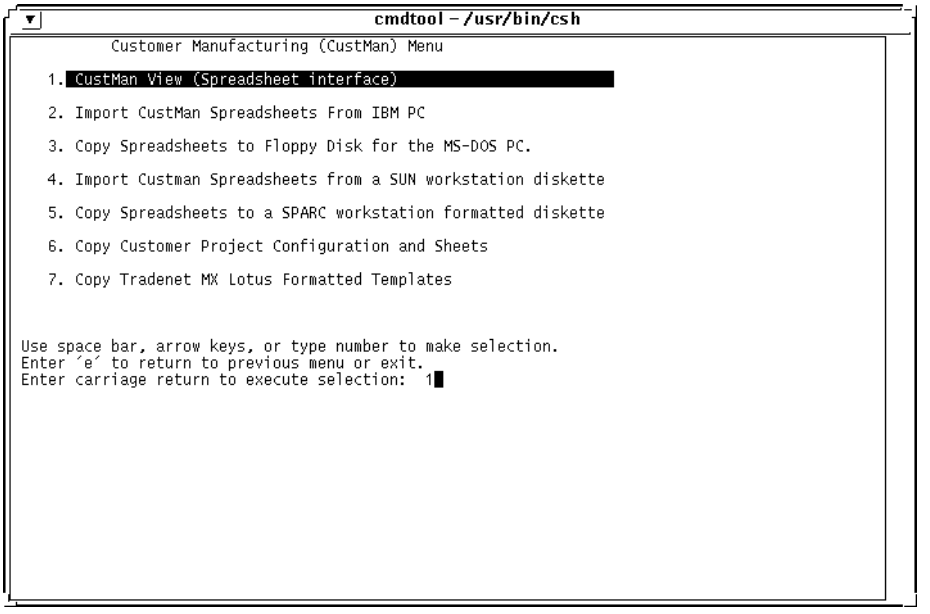
Generate a Database Configuration

1. When all the data has been entered on the SiteMan order form, press **Esc** to store the new data.
2. To exit from the order form, type **E**, or highlight **Exit** on the top-line menu, then press ENTER.
3. Press ENTER again.
4. On the **Site Manufacturing (SiteMan)** menu, type or select **2** to select **Generate Configuration from Entry Form and Load Country Base**; press ENTER.
5. Type the project name (case sensitive); press ENTER. The system generates the configuration.
6. After the configuration for your project has been generated, the system displays progress messages, then prompts you to press ENTER to continue. Press ENTER.

Enter Data in the CustMan Spreadsheets

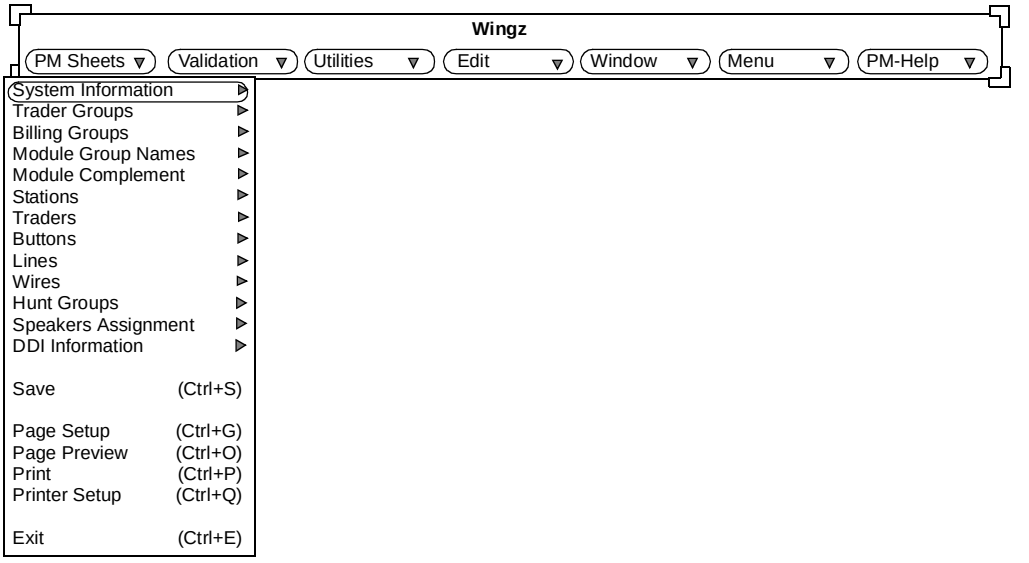
1. On the **Site Manufacturing (SiteMan)** menu, type **3** for the **CustMan** menu; press ENTER

FIGURE 3-6 Customer Manufacturing (CustMan) Menu.



2. On the **Customer Manufacturing (CustMan) Menu**, type or select **CustMan View (Spreadsheet interface**); press ENTER. The system displays an information message. Press ENTER again.
3. Type **y** to launch the CustMan Spreadsheet Operations; press ENTER. The system displays an information message. Wingz is started. The CustMan main menu bar is displayed at the top of the window. Close the **welcome.wkz** window by clicking the triangle in the top left corner.
4. On the Wingz/CustMan main menu bar, click **PM_Sheets**. The system opens a drop-down menu.

FIGURE 3-7 CustMan PM Sheets Menu



PM Sheet Column Heading Color Codes

The column headings of the PM sheets are color coded to identify the type of data to be entered in the column.

- **Bright Red:** The data in this column is mandatory. If you do not fill in the required data in this column the database cannot be properly generated.
- **Bright Blue**: Data entries in this column must be filled in using the appropriate dialog box pick list. Failure to use the pick list will result in database errors.
- **Dark Green:** Data is not mandatory but will cause report problems on the system if not filled in.
- **Black:** Data is not required for proper database creation or MX System operation. The data does however appear in some reports. The data can be filled in later using the MX System Center if it is not available prior to cut-over.
- **Dark Purple:** The data is for information only and is not required by DataMan to create the database.

Note *It should be noted that the use of the color codes listed above, especially dark green, black, and dark purple, is not consistent. Verify for yourself that the you have the correct column before entering or changing data.*

The following is a list of the PM Sheets and their associated file names

TABLE 3-1 The CustMan **PM Sheets** menu

PM Sheet Title	File Name
System Information	pmsystem.wkz
Trader Groups	pmtradgp.wkz
Billing Groups	pmbillgp.wkz
Module Group Names	pmmogma.wkz
Module Complement	pmstmogp.wkz
Stations	pmstatin.wkz
Traders	pmtrader.wkz
Buttons	btn1.wkz btn2.wkz - btn4.wkz
Lines	pmlines.wkz
Wires	pmwires.wkz
Hunt Groups	pmhuntgp.wkz
Speakers Assignment	pmrmtspk.wkz pmtrdspk
DDI Information	pmoopsgr.wkz pmextens.wkz pmclinum.wkz

From this drop-down menu you can select and display any of the PM spreadsheets. To open a spreadsheet, click its name on the list; then click the **Edit** text box.

In addition to the PM sheets, the menu provides the following options:

1. **Save (Ctrl + S):** Save a PM sheet. Use this menu option frequently to save data to prevent data loss in the unlikely event of a system crash.
2. **Page Setup (Ctrl + G):** Enter page configurations which will be used to format the screen and printer output.
3. **Page Preview (Ctrl + O):** View a spreadsheet before printing.
4. **Print (Ctrl + P):** Send the currently active spreadsheet to the printer.
5. **Printer Setup (Ctrl + Q):** Set printer operating parameters.
6. **Exit (Ctrl + E):** Exit the Wingz/CustMan PM view.

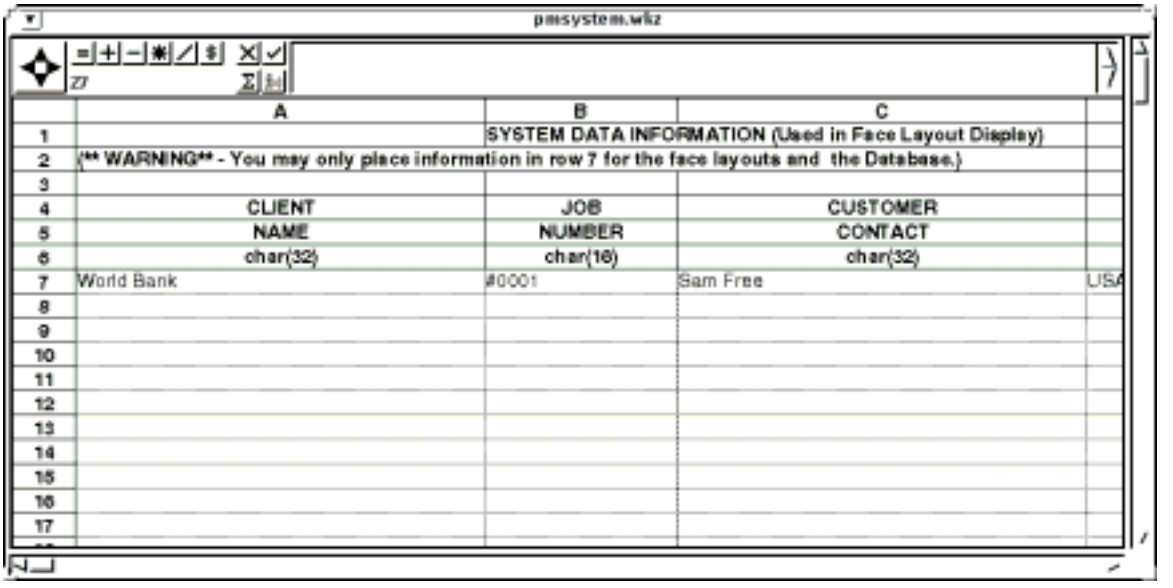
Open the CustMan spreadsheets in the order they appear on the following pages, and are listed in the table above. Fill out all necessary columns in each spreadsheet, then quit and save the changes.

Note *When you have finished entering data on a spreadsheet, use the* **No Decimals** *utility to remove decimal points from numeric values and center data in cells. The* **No Decimals** *utility is the first item on the* **Utilities** *menu; or you can invoke it from the keyboard by using accelerator keys Ctrl + N.*

System Information

System information is entered on the sheet named pmsystem.wkz.

FIGURE 3-8 **System Data Information** Sheet

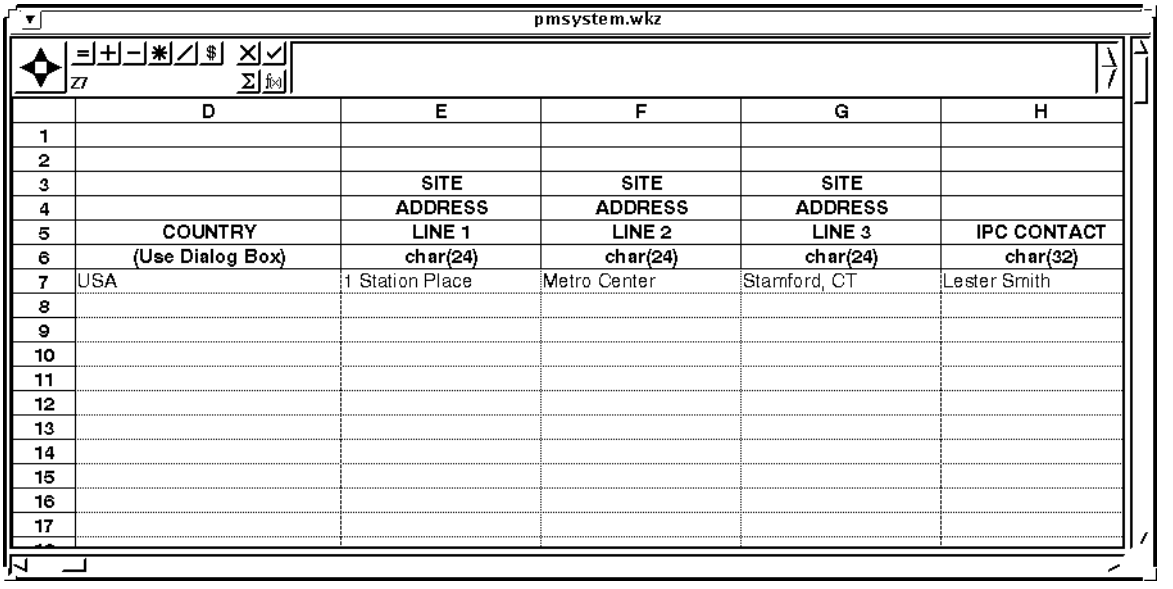


pmsystem.wkz

	A	B	C	
1		SYSTEM DATA INFORMATION (Used in Face Layout Display)		
2	(** WARNING** - You may only place information in row 7 for the face layouts and the Database.)			
3				
4	CLIENT	JOB	CUSTOMER	
5	NAME	NUMBER	CONTACT	
6	char(32)	char(16)	char(32)	
7	World Bank	#0001	Sam Free	USA
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

- Data entered in columns A–C is not used during the merge. It is, however, helpful to have this information for reference. The information in these columns is used if you are using the Button Face Layout utilities.

FIGURE 3-9 **System Data Information** Sheet

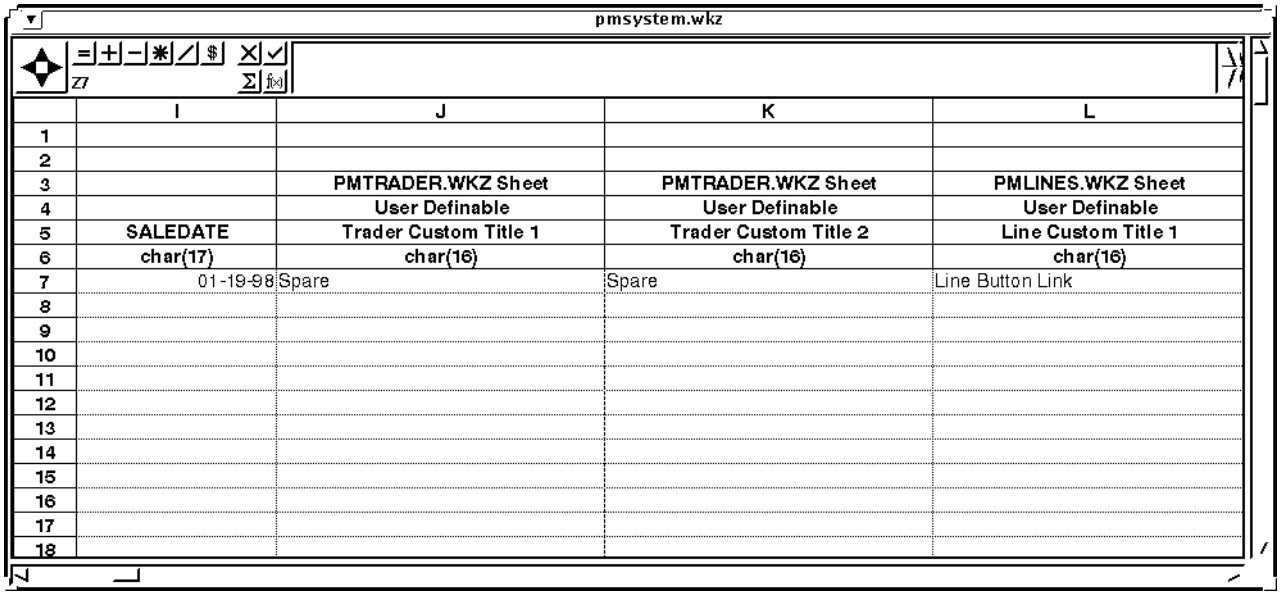


pmsystem.wkz

	D	E	F	G	H
1					
2					
3		SITE	SITE	SITE	
4		ADDRESS	ADDRESS	ADDRESS	
5	COUNTRY	LINE 1	LINE 2	LINE 3	IPC CONTACT
6	(Use Dialog Box)	char(24)	char(24)	char(24)	char(32)
7	USA	1 Station Place	Metro Center	Stamford, CT	Lester Smith
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

- The *Country* information in column D is required, and must match the country name specified on the SiteMan order form. To verify which country name was used on the SiteMan order form, select **PM-Help**> **About CustMan Help** on the Wingz/CustMan main menu bar. Use the **Country Name** dialog box (Ctrl + 6) to enter the name.
- Data entered in columns E-I is not used during the merge. It is, however, helpful to have this information for reference. The information in these columns is used if you are using the Button Face Layout utilities.

FIGURE 3-10 **System Data Information** Sheet

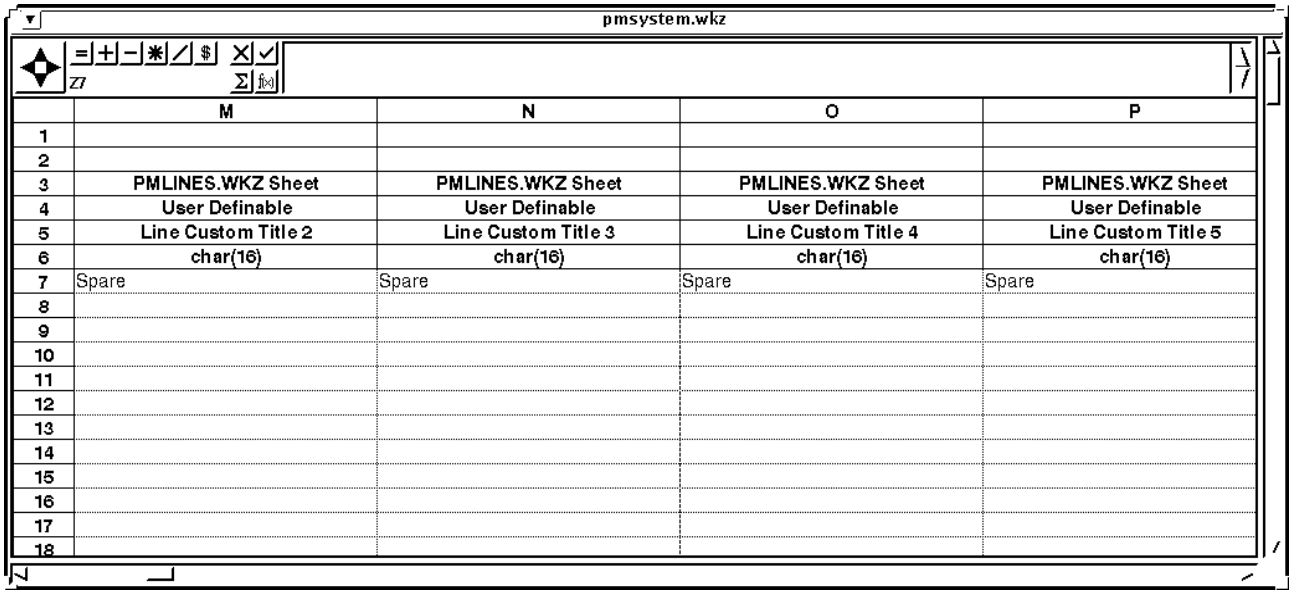


pmsystem.wkz

	I	J	K	L
1				
2				
3		PMTRADER.WKZ Sheet	PMTRADER.WKZ Sheet	PMLINES.WKZ Sheet
4		User Definable	User Definable	User Definable
5	SALEDATE	Trader Custom Title 1	Trader Custom Title 2	Line Custom Title 1
6	char(17)	char(16)	char(16)	char(16)
7	01-19-98	Spare	Spare	Line Button Link
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

- Columns J - W of this sheet define custom titles for custom-definable columns in the **Trader**, **Lines** and **Wires** sheets. Although they are not normally used, they can be filled with any kind of data. Columns J – K are for the **Trader** sheet, L – S are for the **Lines** sheet and T – W are for the **Wires** sheet. In the example above, all of these titles are set to be Spare.

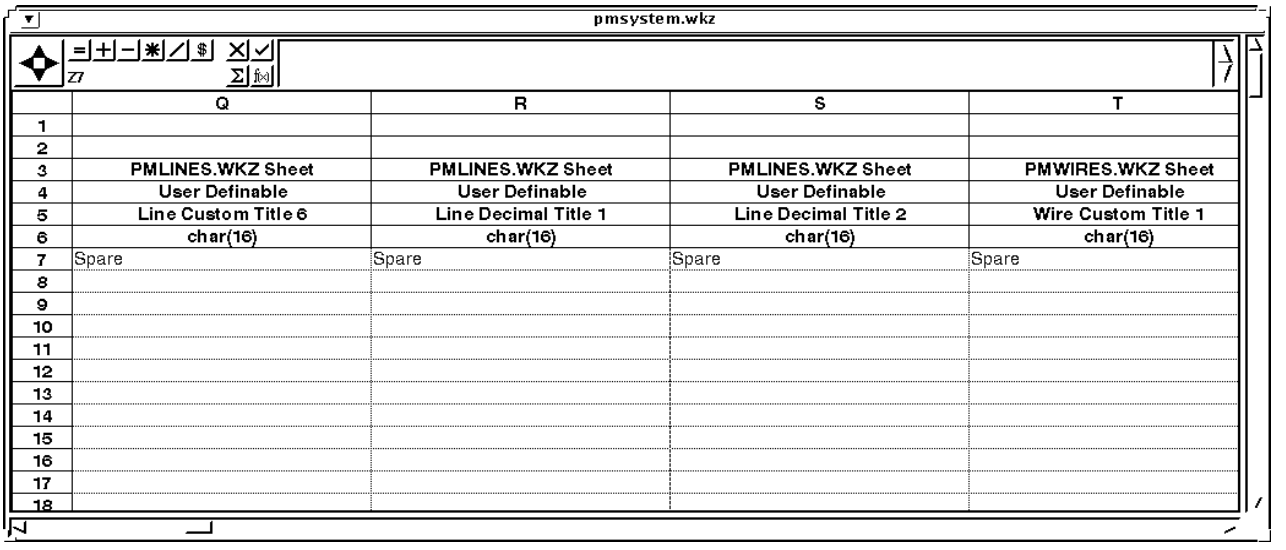
FIGURE 3-11 **System Data Information** Sheet



pmsystem.wkz

	M	N	O	P
1				
2				
3	PMLINES.WKZ Sheet	PMLINES.WKZ Sheet	PMLINES.WKZ Sheet	PMLINES.WKZ Sheet
4	User Definable	User Definable	User Definable	User Definable
5	Line Custom Title 2	Line Custom Title 3	Line Custom Title 4	Line Custom Title 5
6	char(16)	char(16)	char(16)	char(16)
7	Spare	Spare	Spare	Spare
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

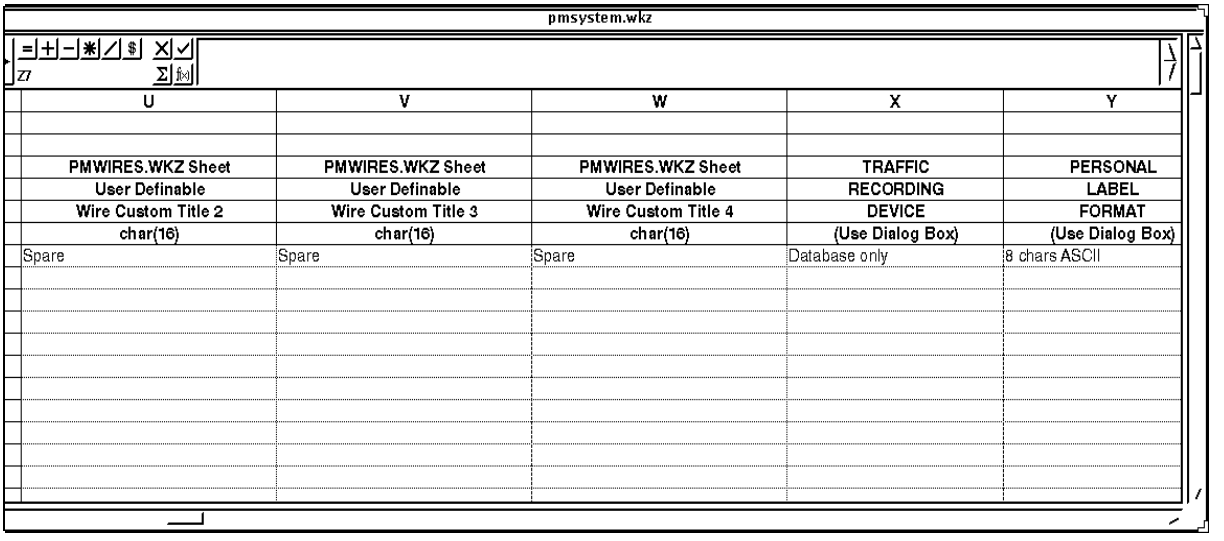
FIGURE 3-12 **System Data Information** Sheet



pmsystem.wkz

	Q	R	S	T
1				
2				
3	PMLINES.WKZ Sheet	PMLINES.WKZ Sheet	PMLINES.WKZ Sheet	PMWIRES.WKZ Sheet
4	User Definable	User Definable	User Definable	User Definable
5	Line Custom Title 6	Line Decimal Title 1	Line Decimal Title 2	Wire Custom Title 1
6	char(16)	char(16)	char(16)	char(16)
7	Spare	Spare	Spare	Spare
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

FIGURE 3-13 **System Data Information** Sheet



pmsystem.wkz

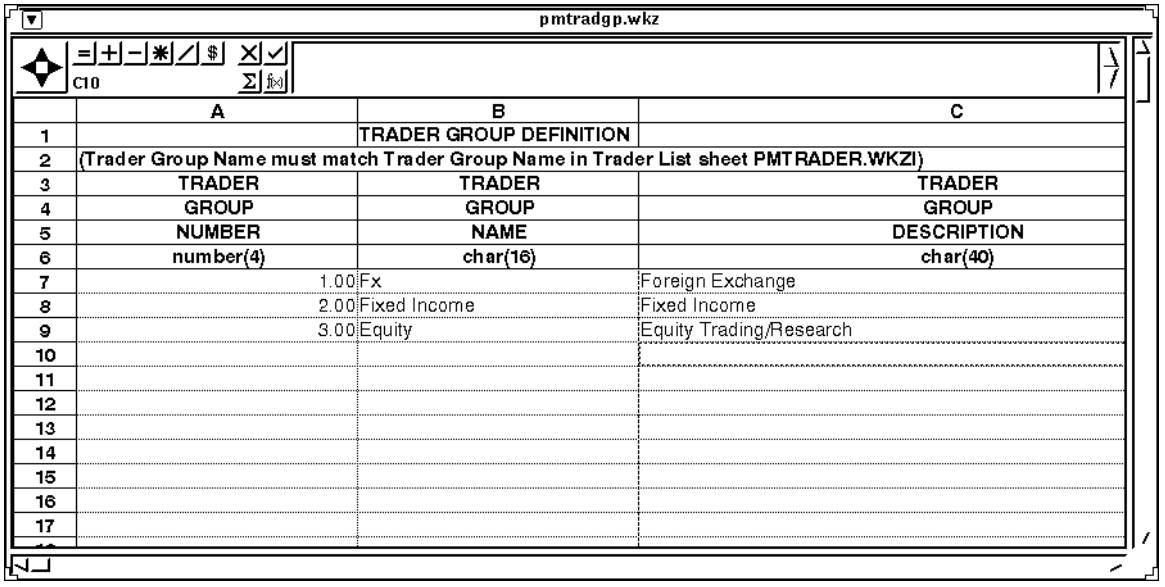
	U	V	W	X	Y
	PMWIRES.WKZ Sheet	PMWIRES.WKZ Sheet	PMWIRES.WKZ Sheet	TRAFFIC	PERSONAL
	User Definable	User Definable	User Definable	RECORDING	LABEL
	Wire Custom Title 2	Wire Custom Title 3	Wire Custom Title 4	DEVICE	FORMAT
	char(16)	char(16)	char(16)	(Use Dialog Box)	(Use Dialog Box)
	Spare	Spare	Spare	Database only	8 chars ASCII

- The traffic recording device in column **X** must be selected from the **Traffic Recording Device** dialog box on the **PM-Help** menu. This column defines how call traffic billing group data will be processed. See *Billing Groups* on page 3-17 for more information on Billing Groups.
- The personal label format in column **Y** must be selected from the **Personal Label Format** dialog box.

Trader Groups

Trader Group information is entered on the sheet named pmtradgp.wkz.

FIGURE 3-14 **Trader Group Definition** Sheet



pmtradgp.wkz

C10

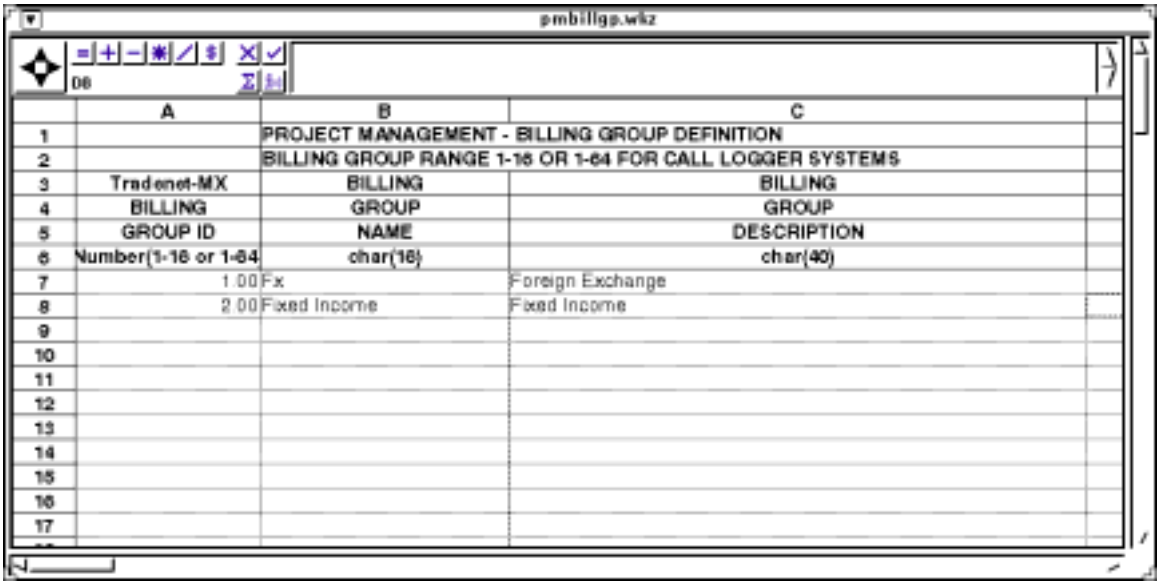
	A	B	C
1		TRADER GROUP DEFINITION	
2	(Trader Group Name must match Trader Group Name in Trader List sheet PMTRADER.WKZI)		
3	TRADER	TRADER	TRADER
4	GROUP	GROUP	GROUP
5	NUMBER	NAME	DESCRIPTION
6	number(4)	char(16)	char(40)
7	1.00	Fx	Foreign Exchange
8	2.00	Fixed Income	Fixed Income
9	3.00	Equity	Equity Trading/Research
10			
11			
12			
13			
14			
15			
16			
17			

- A trader group is a group of traders who belong to the same department and have the same basic button face layout. In CustMan, only one **Buttons** sheet can be built per trader group. If a department contains groups of traders with substantial differences in their button layouts, they should be grouped separately.
- The **Trader Group Definition** sheet has three columns. The group number is in the range 1– 9999; the group name must be 16 characters or fewer; and the description must be 40 characters or fewer.
- The example above shows three main trader groups: Fx, Fixed Income, and Equity.

Billing Groups

Billing Group information is entered on the sheet named pmbillgp.wkz

FIGURE 3-15 Billing Group Definition Sheet



	A	B	C
1		PROJECT MANAGEMENT - BILLING GROUP DEFINITION	
2		BILLING GROUP RANGE 1-16 OR 1-64 FOR CALL LOGGER SYSTEMS	
3	Tradenet-MX	BILLING	BILLING
4	BILLING	GROUP	GROUP
5	GROUP ID	NAME	DESCRIPTION
6	Number(1-16 or 1-64	char(16)	char(40)
7	1.00	Fx	Foreign Exchange
8	2.00	Fixed Income	Fixed Income
9			
10			
11			
12			
13			
14			
15			
16			
17			

- A billing group associates one or more traders with line traffic (traffic reports). A billing group can be set up by floor, department, sub department, or individual trader. The maximum number of billing groups in a Tradenet MX System Center is 16. With the connection of an external call logger, this number can be increased to 64.

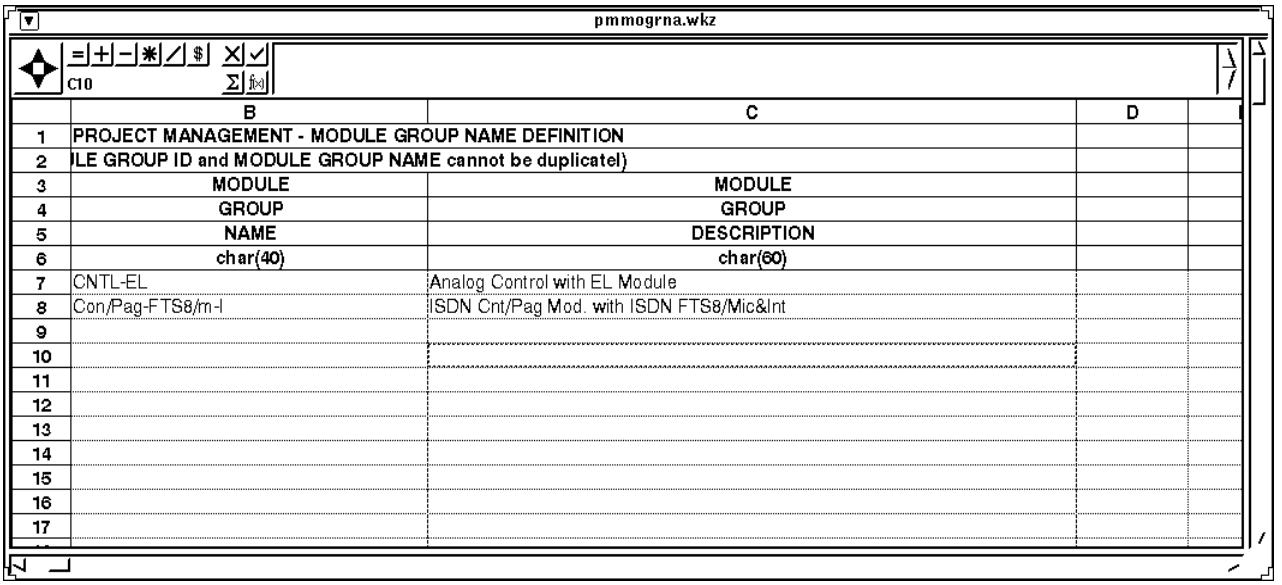
Note *However, external call logger software and hardware would have to be purchased by the customer, and would be the responsibility of the customer to maintain. In addition,* ***only*** *the Traffic Recording Device selection Port Only will allow 64 billing groups.*

- In installations with 16 trader groups or fewer, the billing groups are a mirror image of the trader groups.
- The **Billing Group Definition** sheet has three columns. The group number can be in the range 1–16. The group name must be 16 characters or fewer, and the description must be 40 characters or fewer.

Module Group Names

Module group names are entered on the sheet named pmmogrna.wkz

FIGURE 3-16 Module Group Name Definition Sheet



pmmogrna.wkz

C10

	B	C	D
1	PROJECT MANAGEMENT - MODULE GROUP NAME DEFINITION		
2	LE GROUP ID and MODULE GROUP NAME cannot be duplicate!)		
3	MODULE	MODULE	
4	GROUP	GROUP	
5	NAME	DESCRIPTION	
6	char(40)	char(60)	
7	CNTL-EL	Analog Control with EL Module	
8	Con/Pag-FTS8/m-I	ISDN Cnt/Pag Mod. with ISDN FTS8/Mic&Int	
9			
10			
11			
12			
13			
14			
15			
16			
17			

- This sheet is used to specify the number of module groups and their names. Module groups are used to define each of the unique module configurations found at a customer site.
- The number of module groups and their names have no relation to traders, trader groups or the total number of stations in the system.
- There should be only one module group for each unique desk configuration.
- The **Module Group Name Definition** sheet has three columns.
- A module group number is in the range 1 - 9999. The module group name must be 40 characters or fewer; the module group description must be 60 characters or fewer.

Note *In Tradenet MX releases prior to 8.0.3, the group name is a maximum of 16 characters in length and group description is a maximum of 40 characters in length. See Module Group Names Spreadsheet (pmstmogp.wkz) on page 5-12 for a comprehensive list of module group names.*

Module Complement

Module layout and position definition information is entered on the sheet named pmstmogp.wkz.

FIGURE 3-17 Module Layout and Position Definition for Stations

pmstmogp.wkz

G9

	A	B	C	D
1		MODULE LAYOUT AND POSITION DEFINITION FOR STATIONS		
2				
3	MODULE	MODULE	MODULE POSITION	NUMBER OF HANDSE
4	GROUP	TYPE	AT STATION	OR SPEAKERS
5	NAME	NAME	Number 1 to 9	USED BY MODULE
6	(Use Dialog Box)	(Use Dialog Box)	1 = Left position	number(2)
7	CNTL-EL	Tradenet CNTRLR	1.00	
8	CNT-EL	40 Button EL	2.00	
9				
10				
11				
12				
13				
14				
15				
16				
17				

FIGURE 3-18 Module Layout and Position Definition for Stations

pmstmogp.wkz

A7

	E	F	G	H	I
1					
2					
3	Microphone	SHARED SPEAKERS	Intercom		
4	(0 = Not Assigned)	(Hoot N Holler)	(0= Not Assigned)		
5	(1 = Assigned)	(Set = 0; If Not a Speaker)	(1 = Assigned)		
6	number(1)	number(1)	number(1)		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

- This sheet is used to configure the modules in each module group.
- All seven columns of the **Module Complement** sheet must be filled out.
- The group names (column A) must be picked from the **Module Group Name** dialog box (Ctrl + 9). The group name should be repeated as many times (on as many rows) as there are modules in a group.
- The module types (column B) are picked from the **Module Type** dialog box (Ctrl + 0). Module components, such as orators and speakerphones, that are part of a desk configuration but are not directly connected to the MX System should not be listed in column B.

- The module position (column C) is the left-to-right order in which the modules are laid out on the desk. Control modules should be 1, the next module to the right 2, and so on. The module position can be any number from 1 to 9. No two modules in a group can be assigned the same number.
- Column D contains the number of handsets (ATP or non-ATP), or the number of speakers (dynamic, hoot and intercom) that are equipped on a module. If none are required (as in the case of an EL module), the entry is zero.
- Column E indicates whether the FTS module in a group will be connected to a talkback microphone. Groups that use talkback microphones must have the microphone assigned to the first FTS module in that group. Only one FTS module per group can have a talkback microphone assigned. If no microphone is assigned to a particular module, the entry is zero.

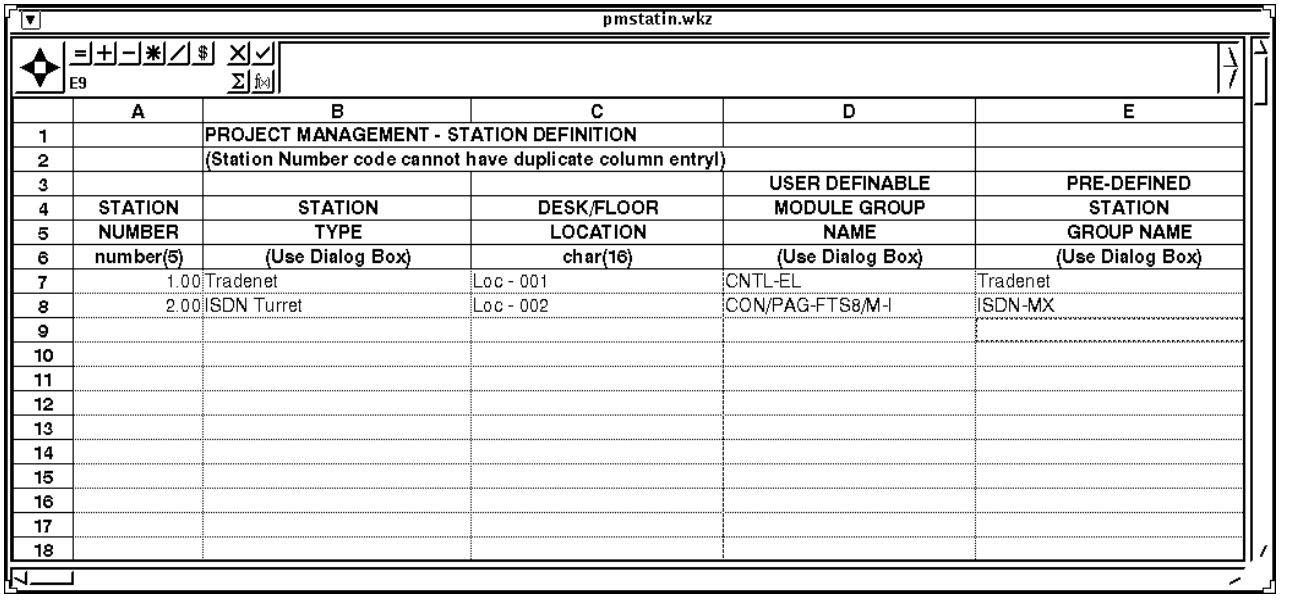
Note *The number of microphones specified here must match the number specified in the Digital Component Information on screen 1 of the order form.*

- Column F represents the number of semi-dynamic or *fixed* speakers that are assigned to a speaker module. Fixed speakers are assigned from left to right, starting with the first channel of the first FTS in a group (or the second channel if an intercom was assigned). If no fixed speakers are assigned to a module, the entry is zero. These speakers are known as hoot, shared, fixed, or semi-dynamic speakers.
- Column G specifies whether the FTS, keyset, or hands-free module in a group will be assigned an intercom channel. Only one intercom channel can be assigned per module group. If assigned, FTS intercom channels are always programmed to the first channel of the first FTS in a group. If no intercom channels are assigned to a particular module, the entry is zero.

Stations

Station information is entered on the sheet named pmstatin.wkz

FIGURE 3-19 Station Definition Sheet.



pmstatin.wkz

	A	B	C	D	E
1		PROJECT MANAGEMENT - STATION DEFINITION			
2		(Station Number code cannot have duplicate column entry!)			
3				USER DEFINABLE	PRE-DEFINED
4	STATION	STATION	DESK/FLOOR	MODULE GROUP	STATION
5	NUMBER	TYPE	LOCATION	NAME	GROUP NAME
6	number(5)	(Use Dialog Box)	char(16)	(Use Dialog Box)	(Use Dialog Box)
7	1.00	Tradenet	Loc - 001	CNTL-EL	Tradenet
8	2.00	ISDN Turret	Loc - 002	CON/PAG-FTS8/M-I	ISDN-MX
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

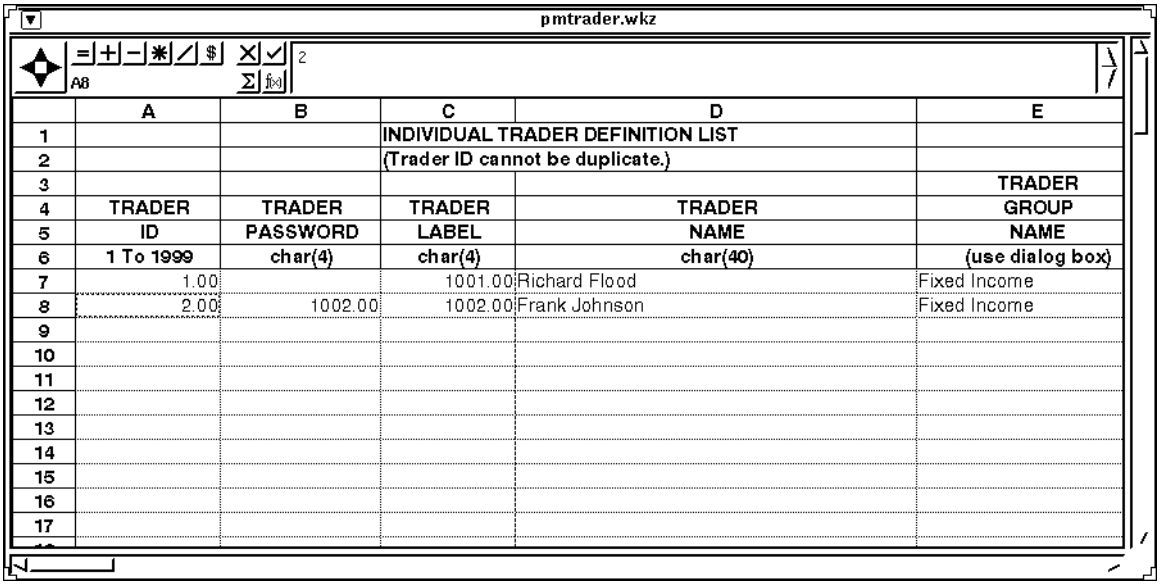
- This sheet is used to specify the location and hardware configuration of each individual station in the system.
- Columns A, B, D and E must be filled out. Column C is a reporting requirement and must be correct for proper system management.
- The station number in column A is a unique number in the range 1–9999. This number is used by the switch to identify which card and port is connected to the station. Only digits are allowed in this column.
- Station type in column B must be picked from the **Station Type** dialog box (CTRL-6). Presently only four of the choices are supported: **Tradenet** for analog turrets, **ISDN Turret** for BRIC turrets, **ISDN Keystation** for ISDN keysets, and **Kanji Turret** for the High Resolution Turret.
- Column C Desk/Floor Location is the physical location of the station at this site. The entry is an alphanumeric string of up to 16 characters. This location is normally assigned by the customer.
- The module group names in column D must be picked from the **Module Group Name** dialog box (CTRL-7).
- Station Group Name in column E must be picked from the **Station Group Name** dialog box (CTRL-8). Presently only three of the choices are supported. **Tradenet** for analog turrets, `ISDN-MX` for BRIC turrets (including the Kanji turret), and **ISDN_KEYSET** for the AT&T ISDN phones.

Note *Both the module group configurations and the total number of stations must be identical to the quantities and configurations that were entered into the SiteMan orderform.*

Traders

Individual trader definition information is entered on the sheet named pmtrader.wkz

FIGURE 3-20 Individual Trader Definition Sheet.



pmtrader.wkz

A8

	A	B	C	D	E
1			INDIVIDUAL TRADER DEFINITION LIST		
2			(Trader ID cannot be duplicate.)		
3					TRADER
4	TRADER	TRADER	TRADER	TRADER	GROUP
5	ID	PASSWORD	LABEL	NAME	NAME
6	1 To 1999	char(4)	char(4)	char(40)	(use dialog box)
7	1.00		1001.00	Richard Flood	Fixed Income
8	2.00	1002.00	1002.00	Frank Johnson	Fixed Income
9					
10					
11					
12					
13					
14					
15					
16					
17					

- This sheet defines every trader that will have access to the MX System.
- A trader can be logged into one station at a time. If a trader needs to be logged into more than one station at a time, then that trader must have multiple listings in this sheet.
- TRID # (column A) is the main number that is used to identify a trader in the MX System. This number is in the range 1–1999, with no two traders being assigned the same number. Only digits are allowed in this column.
- Trader Password (column B) can be any one- to four-digit telephone keypad string. Trader Label (column C) is not presently used in the MX System Center. Recommendation: Insert a four-digit number in this column, the TRID number plus 1000.
- Trader Name (column D) is the name that will appear both in the reports and on the turret when the trader is logged on. For database purposes, this name can be up to 40 characters in length. However, this name must be no more than 25 characters in length if you want it to appear on the turret after logon. If the name does exceed the 25 character limit only the TRID number will appear on the turret.
- Trader Group in column E must be picked from the **Trader Group Name** dialog box (Ctrl + V).
- Billing Group in column F must be picked from the **Billing Group Name** dialog box (Ctrl + B).
- Columns G and H are the user-definable columns for the **Traders** sheet. The titles of these columns can be named in cells J7 and K7 of the **System** sheet. These columns can be filled with any data that you wish; limit is 16 characters.
- Column I Desk/Floor Location, is where the trader normally sits and be up to 16 characters in length. This should refer to a location that has already been listed in the **Stations** sheet.
- Module Group in column J must be picked from the **Module Group Name** dialog box (Ctrl + M).

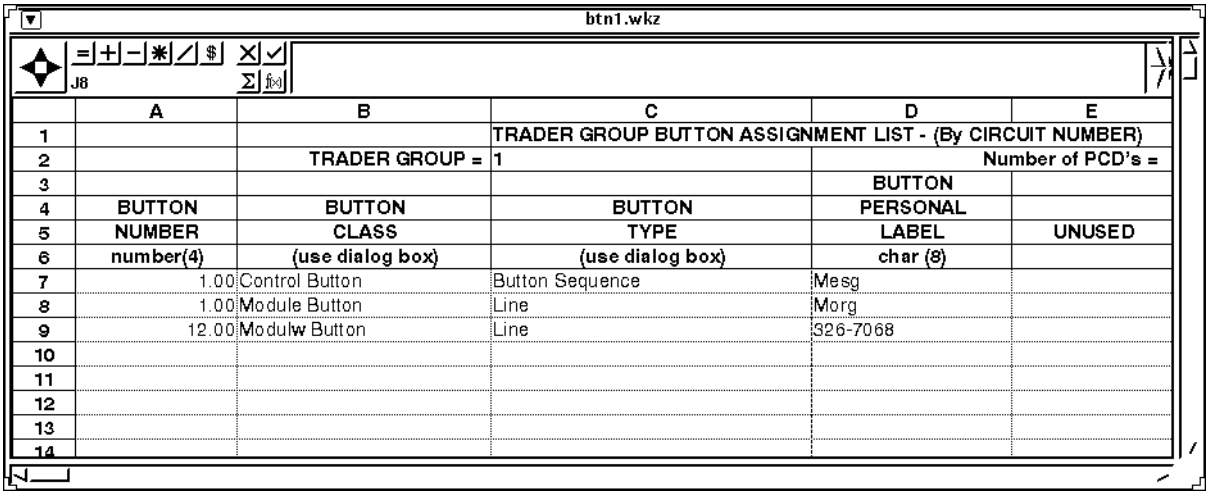
- You can choose 1 of the 200 auto hunt groups for each trader in the MX System. There is a cost option, however, that allows you to assign up to 3 of 200 auto hunt groups for each trader. These additional groups would be assigned in columns L and M. Analog turret auto hunt groups can contain up to 10 lines. Digital turrets can contain up to 16 lines. Hunt group numbers can be manually entered into column K, or selected from the **Auto Hunt Group** dialog box by using Ctrl + H.
- Column N, Label Format, must be picked from the **Personal Label Format** dialog box. This will determine the size of the displayed button label (four or eight characters).

Note *Analog Turrets = 4 CHARS ASCII only, ISDN Keysets = blank.*

Buttons

Button information is entered on the sheet named btn1.wkz

FIGURE 3-21 Trader Group Button Assignment List.

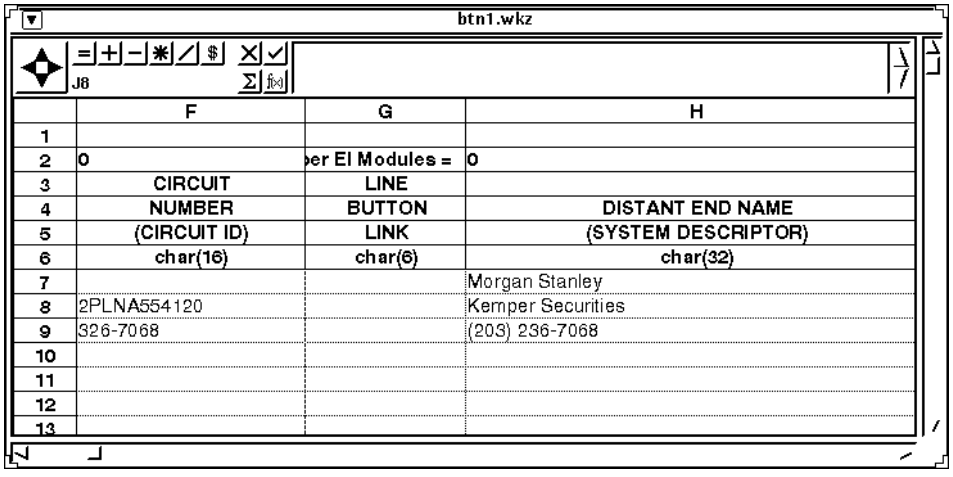


btn1.wkz

J8

	A	B	C	D	E
1			TRADER GROUP BUTTON ASSIGNMENT LIST - (By CIRCUIT NUMBER)		
2		TRADER GROUP =	1		Number of PCD's =
3				BUTTON	
4	BUTTON	BUTTON	BUTTON	PERSONAL	
5	NUMBER	CLASS	TYPE	LABEL	UNUSED
6	number(4)	(use dialog box)	(use dialog box)	char (8)	
7	1.00	Control Button	Button Sequence	Mesg	
8	1.00	Module Button	Line	Morg	
9	12.00	Modulw Button	Line	326-7068	
10					
11					
12					
13					
14					

FIGURE 3-22 Trader Group Button Assignment List

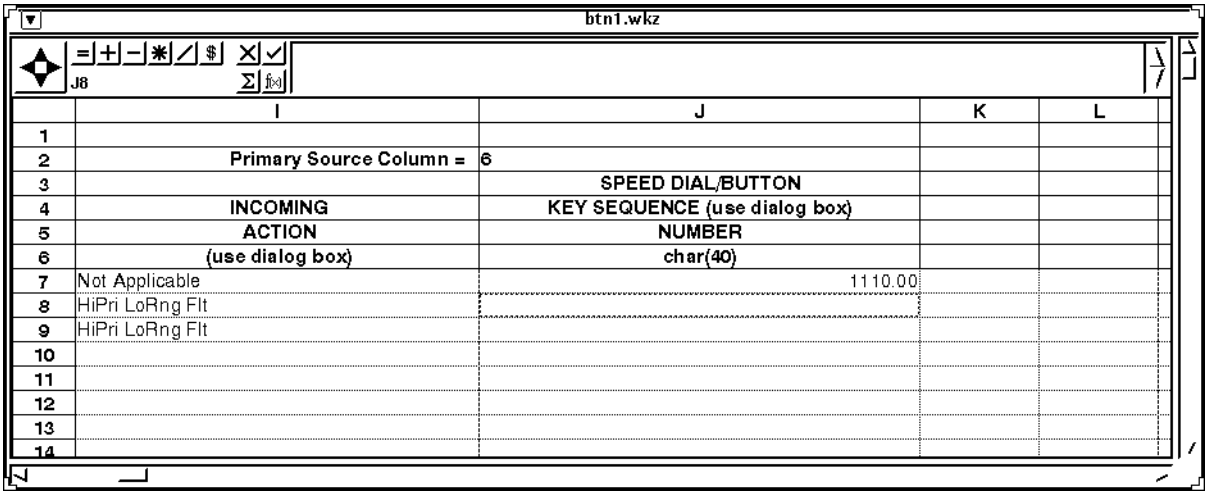


btn1.wkz

J8

	F	G	H
1			
2	0	ber El Modules =	0
3	CIRCUIT	LINE	
4	NUMBER	BUTTON	DISTANT END NAME
5	(CIRCUIT ID)	LINK	(SYSTEM DESCRIPTOR)
6	char(16)	char(6)	char(32)
7			Morgan Stanley
8	2PLNA554120		Kemper Securities
9	326-7068		(203) 236-7068
10			
11			
12			
13			

FIGURE 3-23 Trader Group Button Assignment List



	I	J	K	L
1				
2	Primary Source Column =	6		
3		SPEED DIAL/BUTTON		
4	INCOMING	KEY SEQUENCE (use dialog box)		
5	ACTION	NUMBER		
6	(use dialog box)	char(40)		
7	Not Applicable	1110.00		
8	HiPri LoRng Flt			
9	HiPri LoRng Flt			
10				
11				
12				
13				
14				

- The **Buttons** sheet and the **Lines** sheet contain the same information. It is not necessary for you to make entries in both. You populate either the **Buttons** sheet or the **Lines** sheet, then use a utility to transfer the data to the other. Normally, the most efficient procedure is to populate the **Buttons** sheet first, then use the **Add Buttons to Lines** utility to transfer the data to the **Lines** sheet. If the customer provides complete line information, however, you might prefer to populate the **Lines** sheet first.
- **Buttons** sheets are used to define button assignments for each trader group. There is one master **Buttons** sheet for each trader group defined in the **Trader Group** sheet. The SiteMan merge process creates an individual **Buttons** sheet for each trader, using the **Trader Group Buttons** sheet that was assigned to that trader. Once the database has been created, there is no longer a master **Buttons** sheet for each trader group.
- Row two contains four headings:
  - TRADER GROUP, which identifies the **Buttons** sheet you are working on.
  - Number of PCDs and Number of EL Modules, which identify the module configuration that this sheet will be used with. (Only if you are using the **Button Face Layout** utility.)
  - Primary Source column, which is used to identify which column will be the link between the Button spreadsheet data and the Line spreadsheet data.
- The button number in column A can be from 1 to 600 on the pagination module, and from 1 to 19 on the control module.
- BUTTON CLASS in column B must be picked from the **Valid Button Class** dialog box (Ctrl + 1).
- BUTTON TYPE in column C must be picked from the **Valid Button Types** dialog box (Ctrl + 2).
- BUTTON PERSONAL LABEL Column D is the 8 character label displayed on the pagination module. This label can be from 1 to 8 characters in length. It *cannot* contain a leading space.
- Column E is not presently used.
- CIRCUIT NUMBER in column F is the unique telco-provided circuit number that identifies this line in the MX database.

Warning! ***Circuit numbers are case sensitive: Plnc1001 is not the same as PLNC1001. Suggestion: use only lower-case letters.***

- Use Column G (Line Button Link) to identify the types of lines so that when you copy the data from buttons to lines and do the necessary sorting to remove duplicates and add spares, this information will already be there. This is a recommended ordering/labeling technique for making your work easier. Beginning with the E1 or T1 lines, enter the corresponding letter in Column G based on the following:

  T1

  Note You must use the leading 0 for the numbers 1-9 or the sorting you do later will not work.

  A-01 to A-24

  B-01 to B-24

  C-01 to C-24

  D-01 to D-24

  E-01 to E-24

  Note If you have E1 channels, they of course go from 01-30 but still use letters A-E.

  ALIC
  F

  PLIC
  G

  FLIC
  H

  S2 Private
  I

  S2 Public
  J

- DISTANT END NAME in column H is used to describe where this goes, and which department uses it.
- INCOMING ACTION in column I must be picked from the **Incoming Action** dialog box (Ctrl + 3). If this cell is left empty, the default for column I is LoPriNoRingFlt.
- SPEED DIAL/BUTTON SEQ. NUMBER in column J is for speed dial and button sequence numbers. When entering a speed dial number you must insert a leading quote (“) before that number. When entering button sequence numbers, you must separate sequences with spaces.

Add Buttons to Lines

To add buttons to lines, take the following steps:

1. Open the **Lines** spreadsheet in the PM sheets. Then quit the window. This creates a file to receive the data from the **Buttons** sheet.
2. Open **Button** in the PM sheets. Select the trader group number you wish to open, then click the ENTER button.
3. Using the customer turret face-layout forms, complete the **Buttons** sheet for this trader group. In column G **Line Button Link**, enter a reference letter for the line type. If you have digital lines, also enter a channel number. This will be used to sort the line types later. Quit and save the changes.
4. Repeat steps 2 and 3 until all trader group **Buttons** sheets are built.

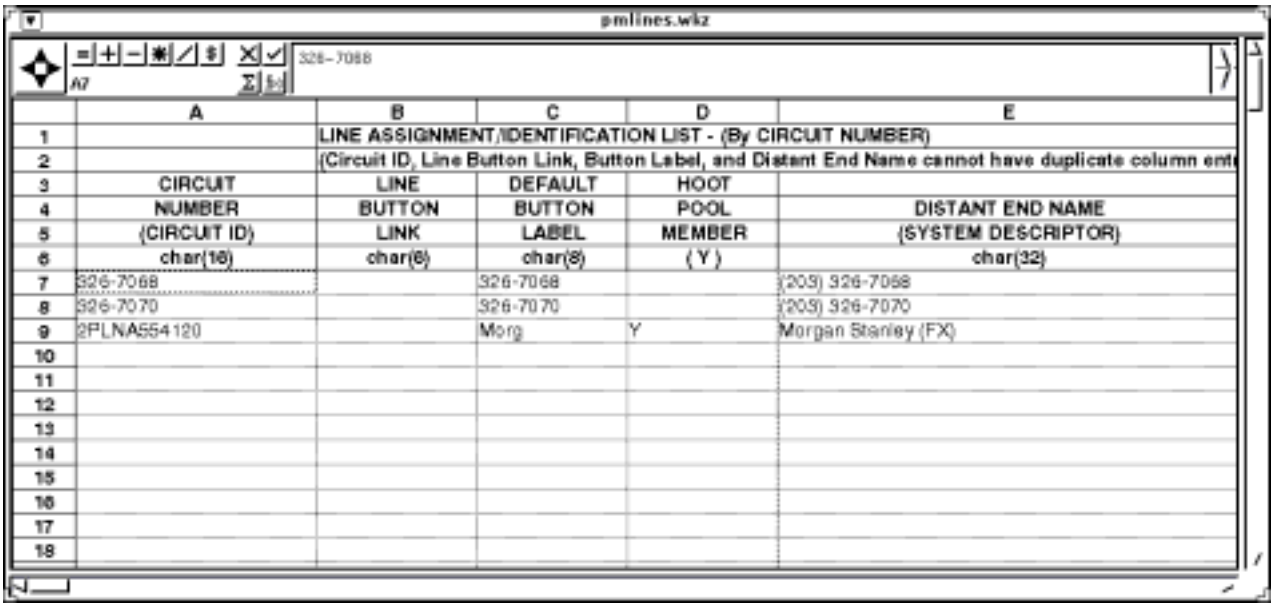
Note *If a trader group has all or most of the same lines as another trader group, use the* **Copy Buttons For Another Trader Group** *option to speed up entering the buttons, then edit the* **Buttons** *sheet.*

5. Select **Utilities**, then **Add Buttons to Lines**, then **Transfer All Buttons to Lines**. Click the ENTER button in the **ENTER BUTTONS SHEET INFO** dialog box. (The primary source default column is the circuit number.)
6. You see a message box showing how many lines were added; click the **OK** button.

Lines

The **Lines** spreadsheet defines every line in the MX System: two and four wire analog lines along with digital E1 and T1 lines.

FIGURE 3-24 Line Assignment/Identification List



pmlines.wkz

	A	B	C	D	E
1		LINE ASSIGNMENT/IDENTIFICATION LIST - (By CIRCUIT NUMBER)			
2		(Circuit ID, Line Button Link, Button Label, and Distant End Name cannot have duplicate column ent			
3	CIRCUIT	LINE	DEFAULT	HOOT	
4	NUMBER	BUTTON	BUTTON	POOL	DISTANT END NAME
5	(CIRCUIT ID)	LINK	LABEL	MEMBER	(SYSTEM DESCRIPTOR)
6	char(16)	char(6)	char(8)	(Y)	char(32)
7	926-7068		926-7068		(203) 926-7068
8	926-7070		926-7070		(203) 926-7070
9	2PLNA554120		Morg	Y	Morgan Stanley (FX)
10					
11					
12					
13					
14					
15					
16					
17					
18					

- CIRCUIT NUMBER in column A is the unique telco-provided circuit number that is used to identify this line in the MX database.

Warning! ***Circuit numbers are case sensitive: Plnc1001 is not the same as PLNC1001. Suggestion: use only lower-case letters.***

- DEFAULT BUTTON LABEL in column C is the label that will be displayed on the pagination module. This label can be from 1 to 8 characters in length. However, it *cannot* contain a leading space.
- A hoot pool is a group of lines that can be programmed not only to dynamic speakers but also to fixed (hoot) speakers as well. HOOT POOL MEMBER in column D is used to specify whether or not this line is part of the system-wide hoot pool.

Note *The total number of lines you assign to the hoot pool can not exceed the hoot pool size specified in the SiteMan order form.*

- DISTANT END NAME in column E defines where this line goes, and which department may be using it.

FIGURE 3-25 Line Assignment/Identification List


pmlines.wkz

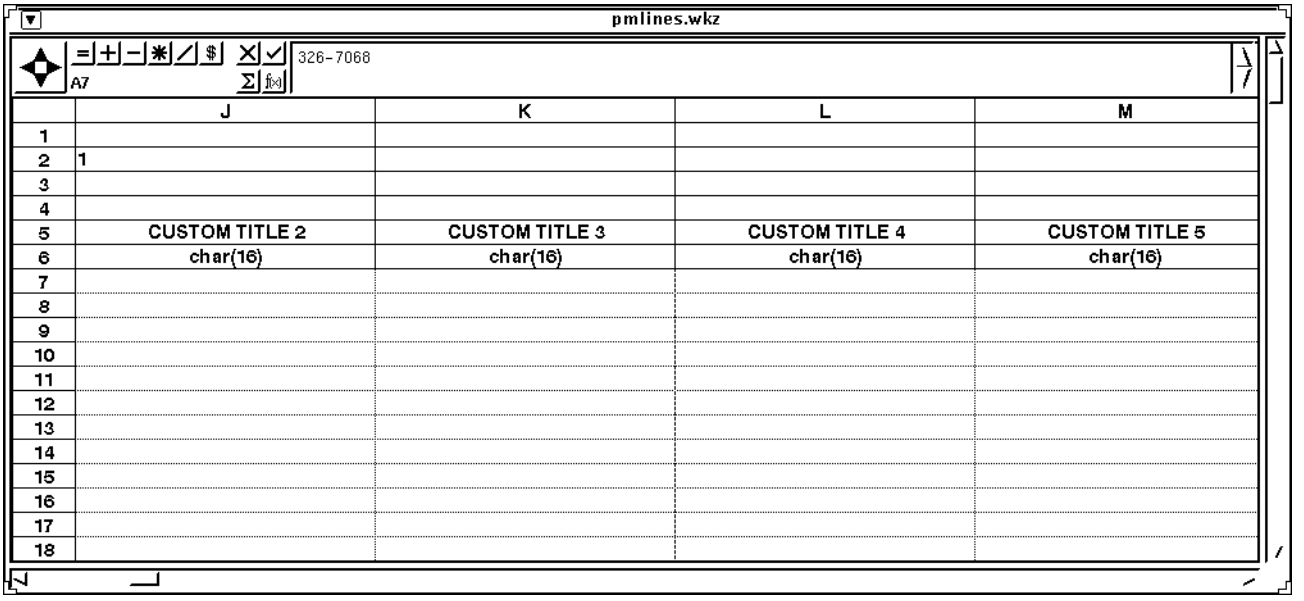
	F	G	H	I
1				
2	iesl)			Primary Source Column = 1
3		TELCO DIGITAL	LINE	
4	LINE/WIRE LINK	CHANNEL-Valid	GROUP	
5	(CABLE CIRCUIT ID)	Range is 1-30.	NAME	CUSTOM TITLE 1
6	char(16)	Analog Chan.=1	(use dialog box)	char(16)
7	CCID - 0001	1.00	Dialtone	
8	CCID - 0002	1.00	Dialtone	
9	CCID - 011	1.00	Private	
10				
11				
12				
13				

- LINE/WIRE LINK (CABLE CIRCUIT ID) in column F establishes the link between the lines in this spreadsheet and their corresponding wire information in the **Wire** spreadsheet. This is an arbitrary alphanumeric reference; it has no meaning outside the MX System. The cable circuit Id is normally referenced as CCID - 0001. There should be a unique CCID number for every analog line in the system. When assigning CCID numbers to digital lines (T1 or E1) assign one number for each channel bank.
- TELCO DIGITAL CHANNEL in column G defines the channel of the digital channel bank to which this line will be assigned; for T1 lines, 1 to 24; for E1 lines, 1 to 30; for analog lines the entry is 1.

Note *The telco digital channel number is a number assigned by the telco. You must have the correct numbers assigned before the final merge can take place.*

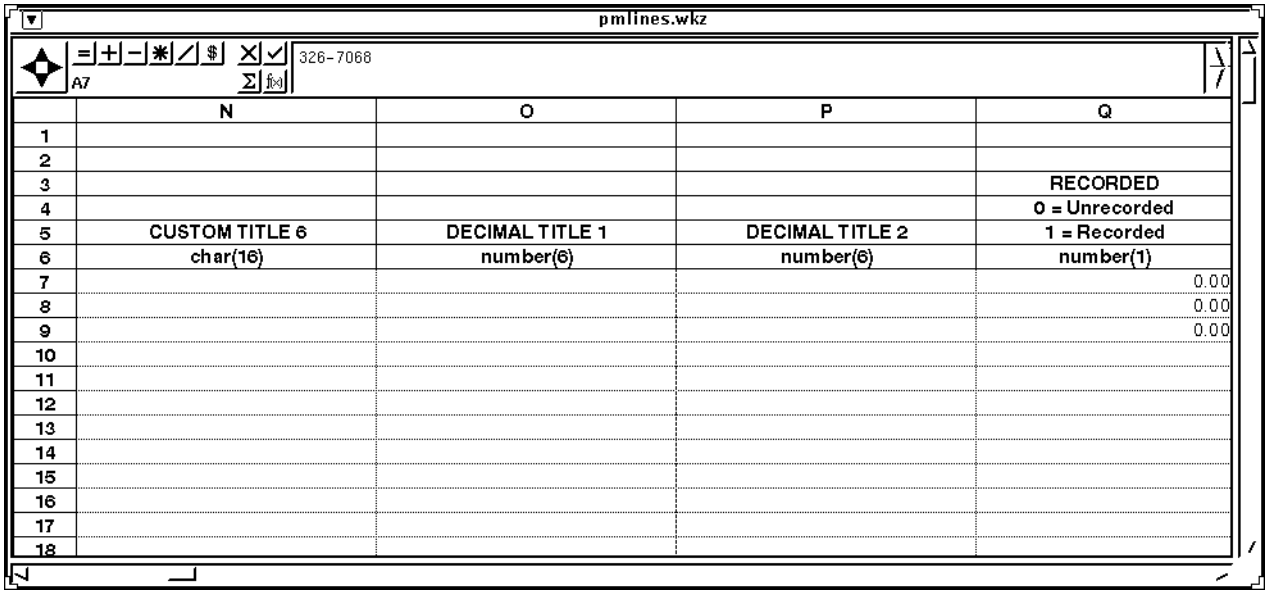
- LINE GROUP NAME in column H must be picked from the **Line Group Name** dialog box (Ctrl + L).
- Row two of this sheet contains a reference for the Primary Source column. The Primary Source column is used to identify which column will be the link between the Button spreadsheet data and the Lines spreadsheet data.
- Columns I – O are user-definable. Column titles can be entered in cells L7 – R7 of the **System** sheet (pmsystem.wkz). Columns I – M can be filled with any data that you wish as long as it does not exceed a maximum of 16 characters in length. Columns N and O are the user-definable decimal columns. Only numeric values from 1 to 32767 can be placed in these columns.

FIGURE 3-26 Line Assignment/Identification List



	J	K	L	M
1				
2	1			
3				
4				
5	CUSTOM TITLE 2	CUSTOM TITLE 3	CUSTOM TITLE 4	CUSTOM TITLE 5
6	char(16)	char(16)	char(16)	char(16)
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

FIGURE 3-27 Line Assignment/Identification List



	N	O	P	Q
1				
2				
3				RECORDED
4				0 = Unrecorded
5	CUSTOM TITLE 6	DECIMAL TITLE 1	DECIMAL TITLE 2	1 = Recorded
6	char(16)	number(6)	number(6)	number(1)
7				0.00
8				0.00
9				0.00
10				
11				
12				
13				
14				
15				
16				
17				
18				

- Column P sets the flag for recording or not recording on a per-line basis. This feature is not supported at this time and so a zero should be assigned to the cells in this column.

Verify Lines Data

1. Before proceeding, quit the **Lines** spreadsheet and save the changes.
2. Reopen the **Lines** spreadsheet.
3. Sort the **Lines** spreadsheet by column **A.** (Use the appropriate sorting procedure for either less than 2000 lines or more than 2000 lines).
4. To find duplicate lines that may have been copied, highlight the cells in column **A** that contain data. Click **Validation/Unique Column Check**, then select **Auto Check Sheet Column**. Select an error color, then click ENTER to check the selected range.
5. Duplicate line entries are highlighted in the specified color. Delete the duplicate entries of each line. Remove the error colors from the sheet when done.
6. Sort the sheet again by doing **Create Range**, select column **B**, then **Ascending Key**. Select column **A**, then **Add Ascending Key**, then **Sort Now.**
7. Add missing or spare line circuits where channels are missing. Enter any other necessary information in the spreadsheet. In column **F** enter a unique alphanumeric string (for example, ccid-0001) for each wire in the spreadsheet. When finished, quit and save the changes.

Copy Lines Data to Wires Spreadsheet

1. Open the **Wires** and **Lines** lines spreadsheets in the PM Sheets. Do an **Arrange Windows** to get the **Lines** and **Wires** sheets side by side.
2. Copy the following columns from **Line** to **Wire**:

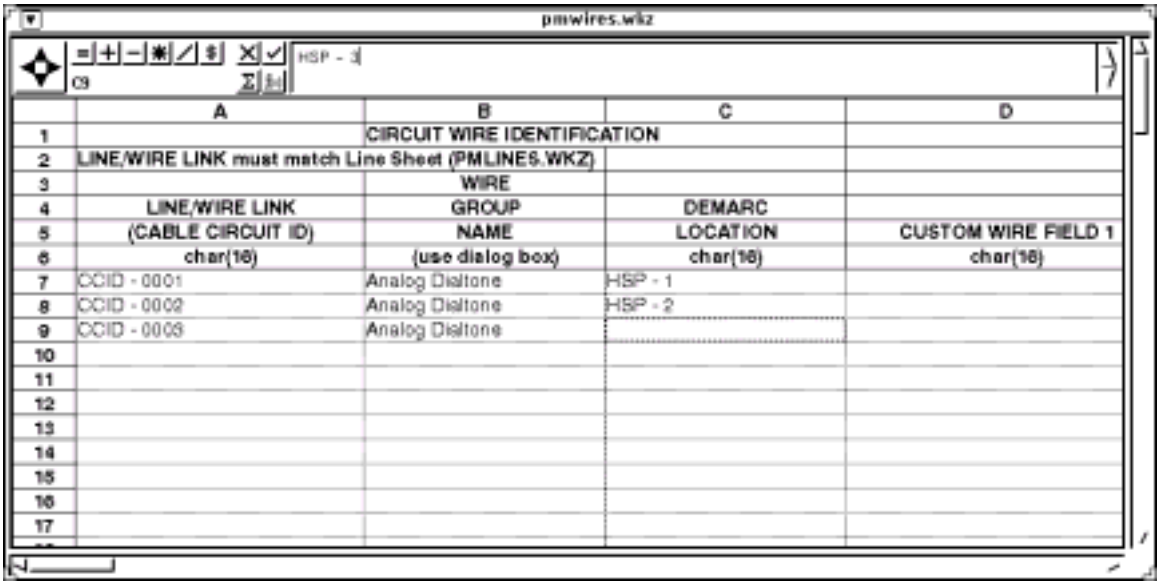
Line		Wire
Column F (Line/Wire Link)	to	Column A (Line/Wire Link)
Column B (Line Button Link)	to	Column D (Custom Title 1)
Column I (Custom Title 1 - Demarc)	to	Column C (Demarc Location)

3. Quit the **Lines s**heet window, and then do an **Arrange windows** on **Wire.**
4. Delete all but one entry for any digital line. Enter any other necessary information into **Wire**, then quit and save the changes.

Wires

The **Wires** spreadsheet provides wire information for every line defined in the **Lines** spreadsheet.

FIGURE 3-28 Circuit Wire Identification



	A	B	C	D
1		CIRCUIT WIRE IDENTIFICATION		
2	LINE/WIRE LINK must match Line Sheet (PMLINES.WKZ)			
3		WIRE		
4	LINE/WIRE LINK	GROUP	DEMARC	
5	(CABLE CIRCUIT ID)	NAME	LOCATION	CUSTOM WIRE FIELD 1
6	char(16)	(use dialog box)	char(16)	char(16)
7	CCID - 0001	Analog Dialtone	HSP - 1	
8	CCID - 0002	Analog Dialtone	HSP - 2	
9	CCID - 0003	Analog Dialtone		
10				
11				
12				
13				
14				
15				
16				
17				

- LINE WIRE LINK (CABLE CIRCUIT ID) in column A establishes the link between the lines in the **Lines** spreadsheet and the corresponding wire information in the **Wires** spreadsheet.

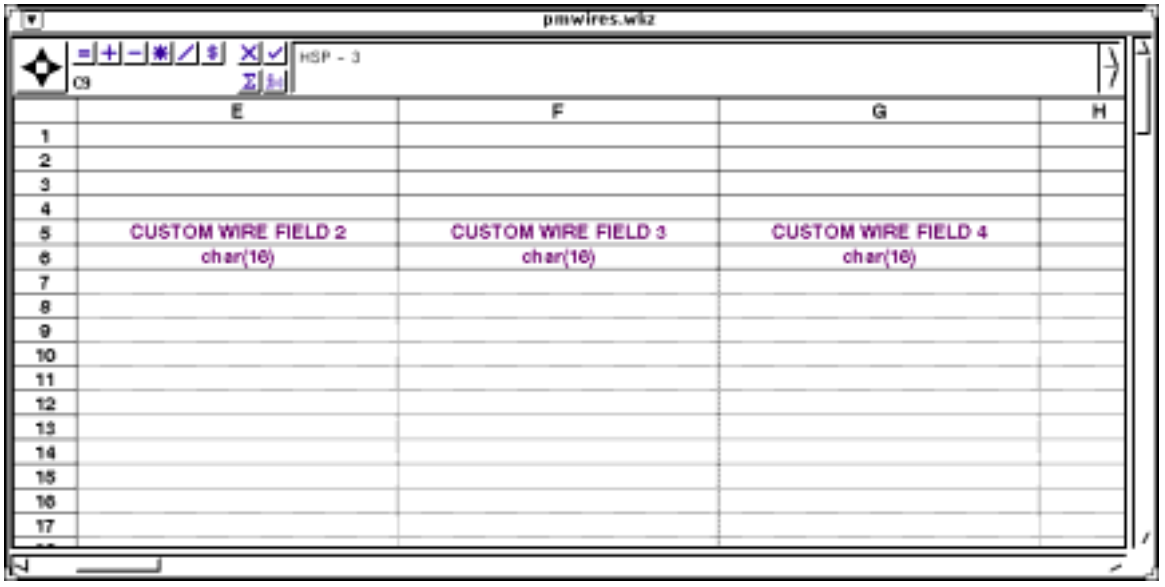
Note *The* **Lines** *sheet might have multiple references to the same CCID number (multiple channels of the same digital circuit); in the* **Wires** *sheet each CCID number is referenced only once.*

- WIRE GROUP NAME in column B must be picked from the **Wire Group Name** dialog box (Ctrl + W).

Note *Wire group names differ from country to country.*

- DEMARC LOCATION in column C identifies the demarc location where the wire is handed off to the MX System from the telco.
- Columns D – G are the user-definable columns for the **Wires** sheet. The Titles for these columns can be named in cells S7 – V7 of the **System** sheet. These columns can be filled with any data that you wish as long as it does not exceed 16 characters.

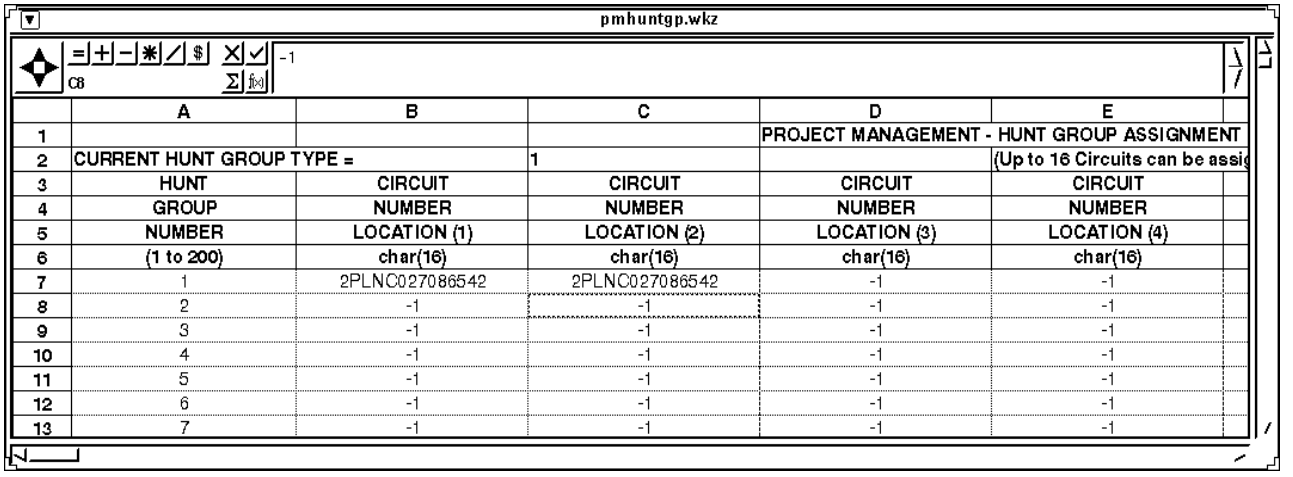
FIGURE 3-29 Circuit Wire Identification



Hunt Groups

Hunt Group information is entered on the sheet named pmhuntgp.wkz.

FIGURE 3-30 Hunt Group Information.



pmhuntgp.wkz

C8 -1

	A	B	C	D	E
1				PROJECT MANAGEMENT - HUNT GROUP ASSIGNMENT	
2	CURRENT HUNT GROUP TYPE =		1		(Up to 16 Circuits can be assig
3	HUNT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
4	GROUP	NUMBER	NUMBER	NUMBER	NUMBER
5	NUMBER	LOCATION (1)	LOCATION (2)	LOCATION (3)	LOCATION (4)
6	(1 to 200)	char(16)	char(16)	char(16)	char(16)
7	1	2PLNC027086542	2PLNC027086542	-1	-1
8	2	-1	-1	-1	-1
9	3	-1	-1	-1	-1
10	4	-1	-1	-1	-1
11	5	-1	-1	-1	-1
12	6	-1	-1	-1	-1
13	7	-1	-1	-1	-1

This sheet is used to define up to 200 hunt groups. The **Hunt Groups** sheet, like the Buttons sheet, has a link to the **Lines** sheet.

- A hunt group that will be used on an analog turret can contain no more than 10 lines.
- A hunt group that will be used on a digital turret can contain up to 16 lines.
- Hunt groups are populated with the each line's circuit number. The circuit numbers listed must appear in both the **Lines** sheet and the **Buttons** sheets of the traders associated with these groups.

Create a Hunt Group

To create a hunt group, take the following steps:

1. To create a hunt group, select a column (the default is **Circuit Number**) then click the ENTER button.
2. Save the data and quit the **Hunt Groups** sheet when finished.

Speakers Assignment

Speaker assignment information is entered on two spreadsheets:

The **Remote Speakers** sheet, pmrmtspk.wkz. This sheet relates each speaker to a station, a circuit and a button label.

The **Trader Speakers** sheet, pmtrdspk.wkz This sheet associates a TRID with one or more speakers.

Remote Speakers sheet, pmrmtspk.wkz

FIGURE 3-31 Speakers Assignment Sheet 1 – pmrmtspk.wkz

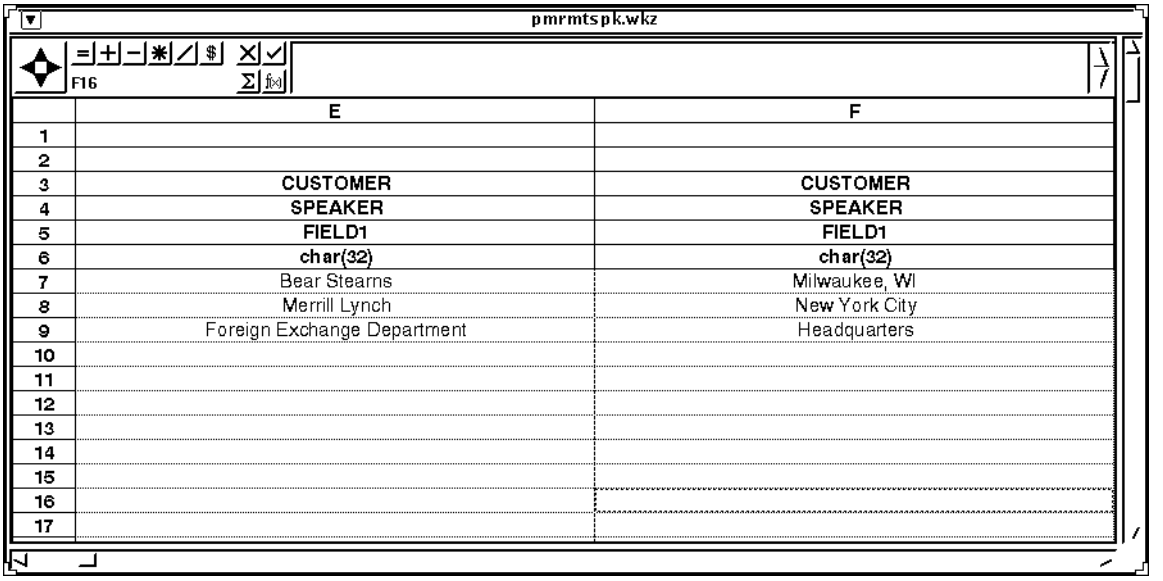
pmrmtspk.wkz

A7

	A	B	C	D
1		INDIVIDUAL SPEAKER TABLE LIST		
2		(Circuit ID cannot have duplicate column entries!)		
3	Individual	STATION	CIRCUIT	Speaker
4	Speaker	NUMBER	ID	BUTTON
5	ID		LINE/WIRE LINK	LABEL
6			char(16)	char(10)
7	1	30	DT-8	BrStrns
8	2	30	DT-33	Merrill
9	3	41	326-7781	FX
10				
11				
12				
13				
14				
15				
16				
17				

- **Column A:** This is user-assigned Id number for a speaker.
- **Column B:** The station with this speaker is associated, as specified on the SiteMan **Station** sheet. This entry is the same as the entry in Column C in the Speakers Assignment Sheet (pmrmtspk.wkz).
- **Column C:** The circuit to which this speaker is connected, as specified on the CustMan **Lines** sheet.
- **Column D:** The center line label that identifies this speaker. The entry here should identify the remote end of the circuit.

FIGURE 3-32 Speakers Assignment Sheet 1 - pmrmtspk.wkz



pmrmtspk.wkz

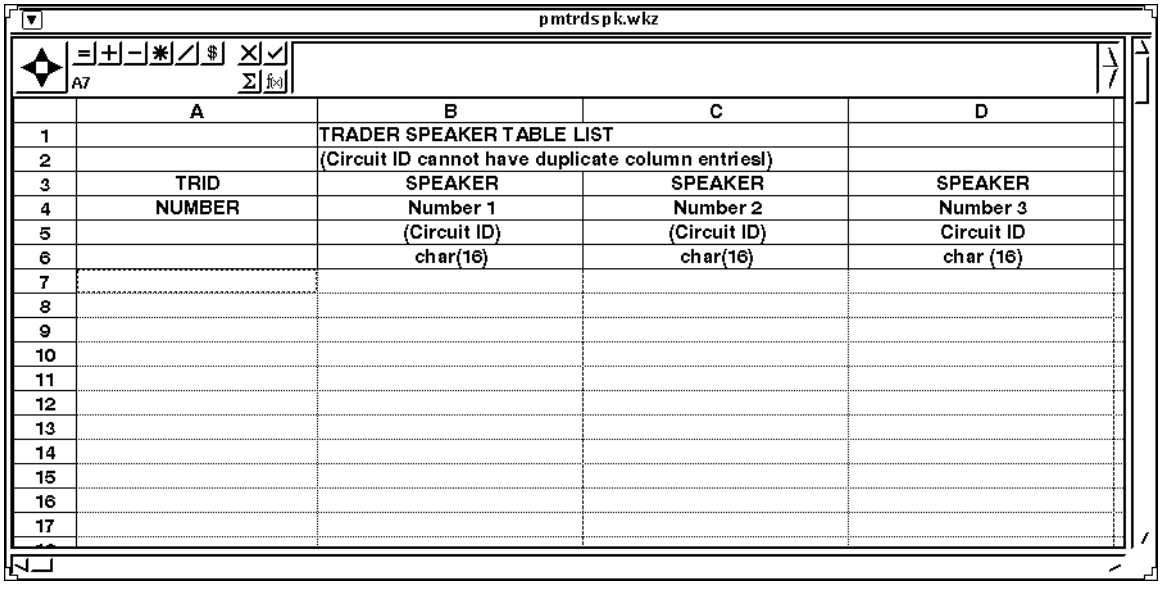
F16

	E	F
1		
2		
3	CUSTOMER	CUSTOMER
4	SPEAKER	SPEAKER
5	FIELD1	FIELD1
6	char(32)	char(32)
7	Bear Stearns	Milwaukee, WI
8	Merrill Lynch	New York City
9	Foreign Exchange Department	Headquarters
10		
11		
12		
13		
14		
15		
16		
17		

- **Columns E and F:** User defined text. These columns might be used, for example, to record the name and address of a company at the remote end of the circuit.

Trader Speakers sheet, pmtrdspk.wkz

FIGURE 3-33 Speakers Assignment Sheet 2 – pmtrdspk.wkz



pmtrdspk.wkz

A7

	A	B	C	D
1		TRADER SPEAKER TABLE LIST		
2		(Circuit ID cannot have duplicate column entriesl)		
3	TRID	SPEAKER	SPEAKER	SPEAKER
4	NUMBER	Number 1	Number 2	Number 3
5		(Circuit ID)	(Circuit ID)	Circuit ID
6		char(16)	char(16)	char (16)
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

- **Column A:** A TRID
- **Columns E – AG:** These provide the Ids of speaker circuits to which this TRID is connected.

DDI Information

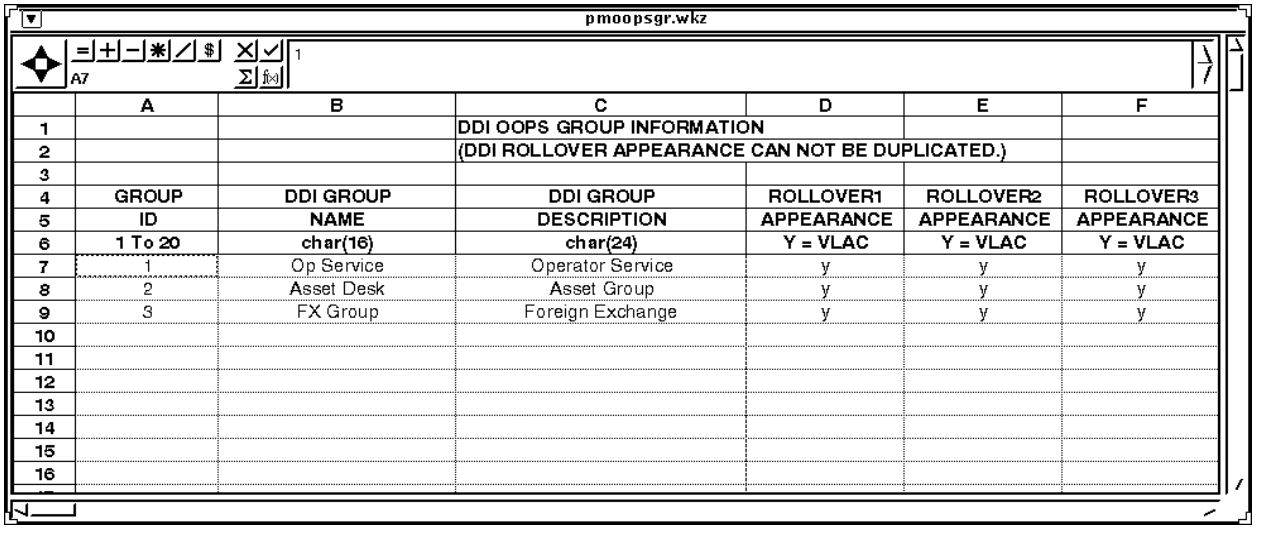
DDI information is entered on two sheets:

- DDI OOPS Group Information Sheet, pmoopsgr.wkz, which specifies one or more rollover appearances for each DDI OOPS group.
- DDI Extension Group Information Sheet, pmextens.wkz, which defines the relationship between provider extensions specified on the SiteMan order form, and routing VLACS that are used to connect calls.

Note *The DDI Extension/Presentation and CLI Information Sheet, pmclinum.wkz, is not currently supported.*

DDI OOPS Group Assignments

FIGURE 3-34 DDI Information Sheet 1 – OOPS Assignments

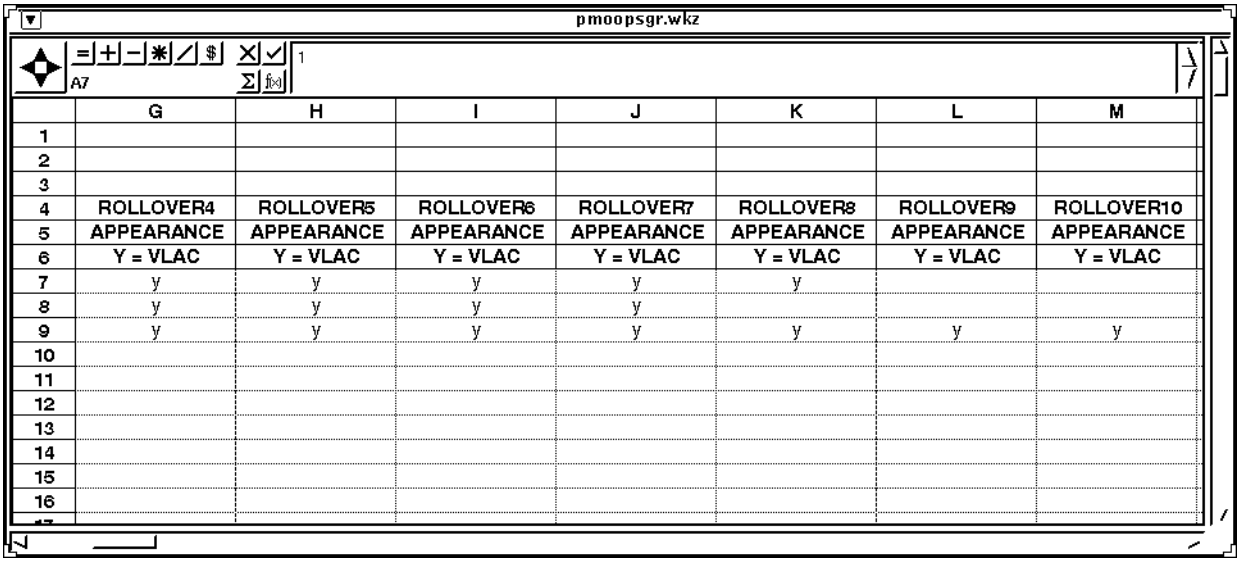


pmoopsgr.wkz

	A	B	C	D	E	F
1			DDI OOPS GROUP INFORMATION			
2			(DDI ROLLOVER APPEARANCE CAN NOT BE DUPLICATED.)			
3						
4	GROUP	DDI GROUP	DDI GROUP	ROLLOVER1	ROLLOVER2	ROLLOVER3
5	ID	NAME	DESCRIPTION	APPEARANCE	APPEARANCE	APPEARANCE
6	1 To 20	char(16)	char(24)	Y = VLAC	Y = VLAC	Y = VLAC
7	1	Op Service	Operator Service	y	y	y
8	2	Asset Desk	Asset Group	y	y	y
9	3	FX Group	Foreign Exchange	y	y	y
10						
11						
12						
13						
14						
15						
16						

- **Column A:** This is the Id number of a DDI OOPS group (maximum value: 20). Start numbering with Group 2; Group 1 is used by the system, and is not available to the user.
- **Column B:** This is a user-specified name for a DDI OOPS group.
- **Column C:** This is a brief description of the DDI OOPS group.
- **Columns D – W:** default: blank. Enter **Y** (or **y**) to request that the population script inserts a vLac into this cell during the merge. A maximum of 20 rollovers can be assigned to an extension.

FIGURE 3-35 DDI Information Sheet 1 – OOPS Assignments

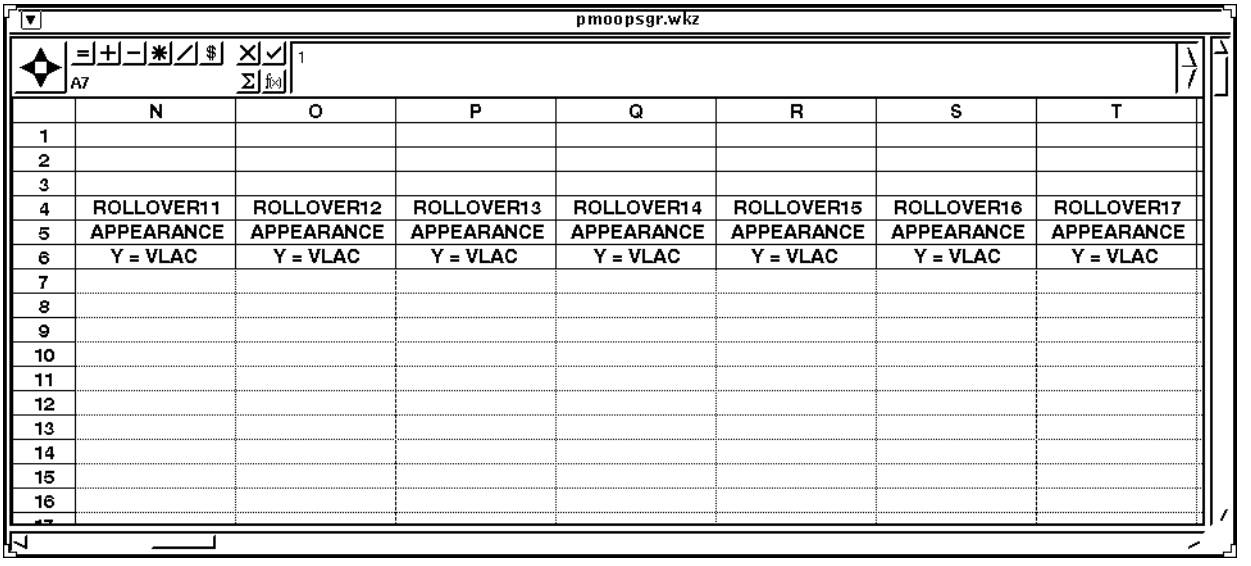


pmoopsgr.wkz

A7

	G	H	I	J	K	L	M
1							
2							
3							
4	ROLLOVER4	ROLLOVER5	ROLLOVER6	ROLLOVER7	ROLLOVER8	ROLLOVER9	ROLLOVER10
5	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE
6	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC
7	y	y	y	y	y		
8	y	y	y	y			
9	y	y	y	y	y	y	y
10							
11							
12							
13							
14							
15							
16							

FIGURE 3-36 DDI Information Sheet 1 – OOPS Assignments



pmoopsgr.wkz

A7

	N	O	P	Q	R	S	T
1							
2							
3							
4	ROLLOVER11	ROLLOVER12	ROLLOVER13	ROLLOVER14	ROLLOVER15	ROLLOVER16	ROLLOVER17
5	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE
6	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

FIGURE 3-37 DDI Information Sheet 1 – OOPS Assignments

pmoopsgr.wkz

	U	V	W	X	Y	Z	AA	AB
1								
2								
3								
4	ROLLOVER18	ROLLOVER19	ROLLOVER20	ALARM				
5	APPEARANCE	APPEARANCE	APPEARANCE	FLAG				
6	Y = VLAC	Y = VLAC	Y = VLAC	(1=on OR 0=off)				
7				1				
8				1				
9				1				
10								
11								
12								
13								
14								
15								
16								

Column X: Enter the alarm flag:

- 1 = An alarm is reported when an incoming call to a DDI extension is not answered because all vLac presentations are busy.
- 0 = Alarms are not reported

DDI Extension Assignments

FIGURE 3-38 DDI Information Sheet 2 – Extension Assignments

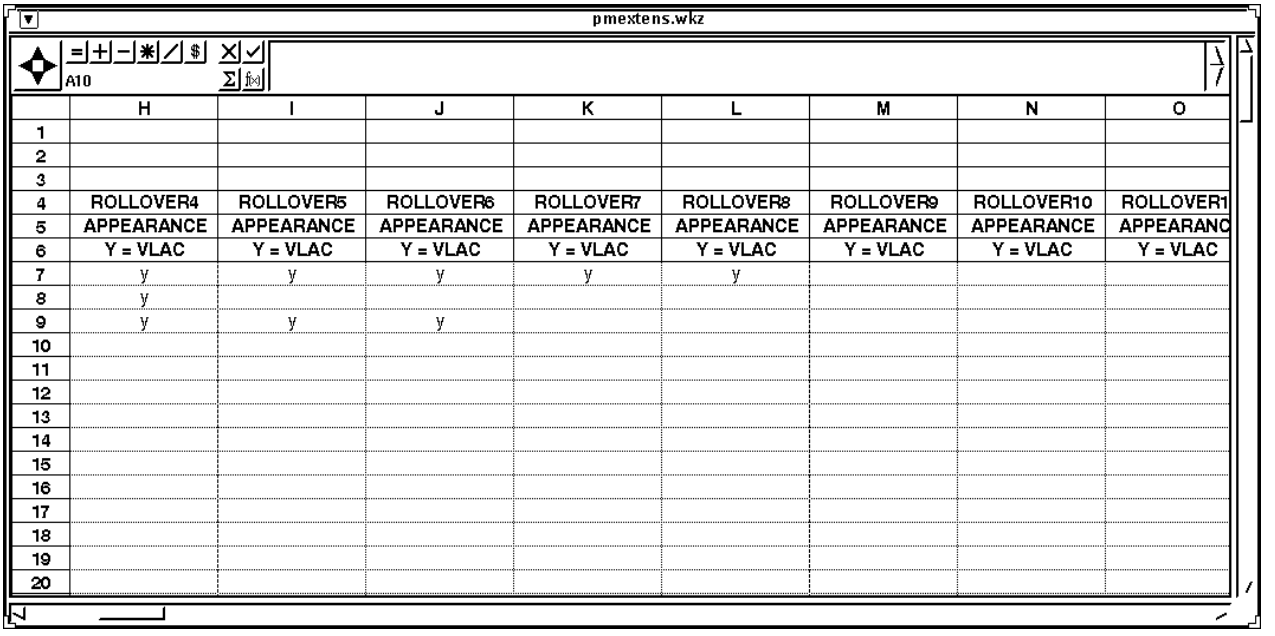
pmextens.wkz

	A	B	C	D	E	F	G	H
1			DDI EXTENSION GROUP INFORMATION INFORMATION					
2			(DDI ROLLOVER APPEARANCE CAN NOT BE DUPLICATED.)					
3								
4	DDI	DDI GROUP	DDI OOPS	DDI GROUP	ROLLOVER1	ROLLOVER2	ROLLOVER3	ROLLOVER4
5	EXTENSIONS	ID	GROUP ID	DESCRIPTION	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE
6	Max 6 Chars	(1 to 10)	(1 to 20)	char(24)	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC
7	4452	1	2	Operator Service	y	y	y	y
8	4453	2	3	Asset Group	y	y	y	y
9	5164	2	4	Foreign Exchange	y	y	y	y
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

- **Column A:** This is a DDI extension number, from the range of provider extension specified on he DDI/CLI screen of the SiteMan order form
- **Column B:** This is the Id of the DDI OOPS group to which the extension is assigned, as specified on the DDI/CLI screen of the SiteMan order form

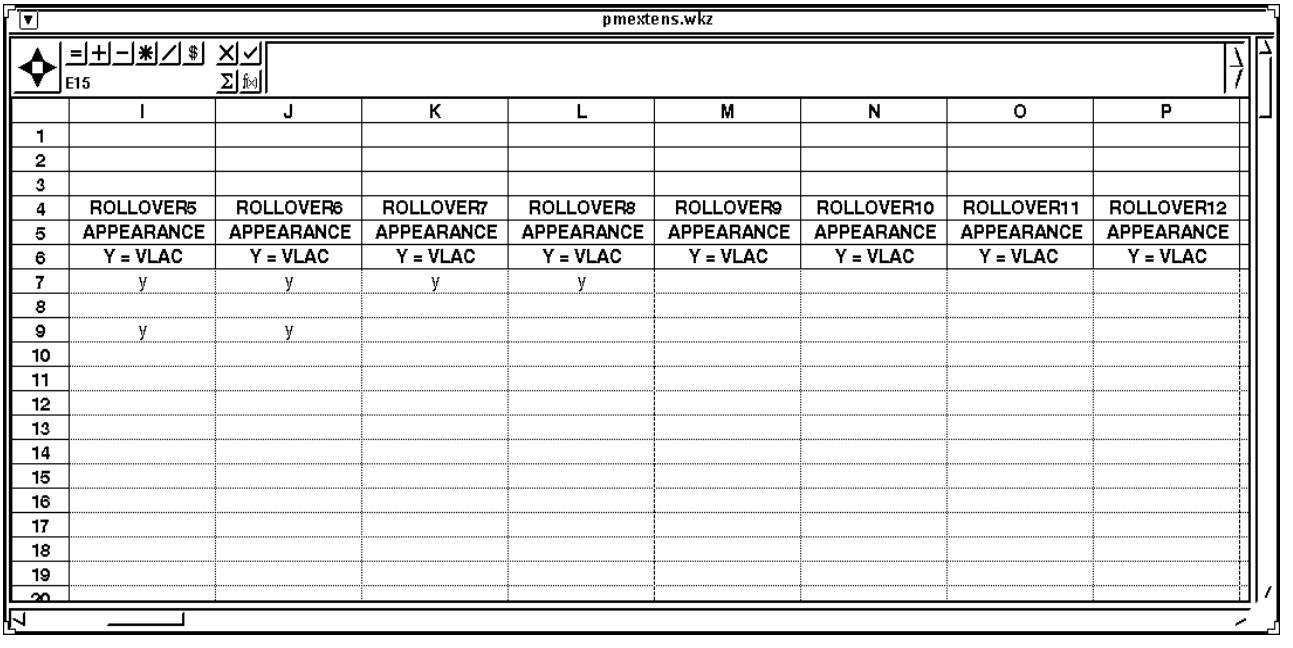
- **Column C:** This is the DDI OOPS group Id specified in Column A of the **DDI OOPS Group Assignments** sheet (pmrmtspk.wkz)
- **Column D:** This is the description of the DDI OOPS group, from Column C of the **DDI OOPS Group Assignments** sheet (pmoopsgr.wkz)
- **Columns E – X**: The default is blank; enter **Y** (or **y**) to request a CustMan to supply a rollover appearance.

FIGURE 3-39 DDI Information Sheet 2 - Extension Assignments



	H	I	J	K	L	M	N	O
1								
2								
3								
4	ROLLOVER4	ROLLOVER5	ROLLOVER6	ROLLOVER7	ROLLOVER8	ROLLOVER9	ROLLOVER10	ROLLOVER1
5	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANC
6	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC
7	y	y	y	y	y			
8	y							
9	y	y	y					
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

FIGURE 3-40 DDI Information Sheet 2 - Extension Assignments



	I	J	K	L	M	N	O	P
1								
2								
3								
4	ROLLOVER5	ROLLOVER6	ROLLOVER7	ROLLOVER8	ROLLOVER9	ROLLOVER10	ROLLOVER11	ROLLOVER12
5	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE	APPEARANCE
6	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC	Y = VLAC
7	y	y	y	y				
8								
9	y	y						
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

DDI Number Assignments

This spreadsheet is not currently supported.

Merge SiteMan and CustMan Data

The merging of CustMan and SiteMan data can be performed all at once or in sections. If the database is very large (more than 400 positions) it may take less time to merge only the section that you are debugging.

Warning! ***Proof and proof your data before doing merges or copying from one sheet to another. This will save trouble later on. Be sure to use consistent naming conventions for module names and circuit numbers.***

---

1. Click **Utilities/Create Files for SiteMan - All Sheets**.
2. Click **OK** to continue.
3. Click **OK** for any messages that appear.
4. Open the command tool that is running DataMan. If you are using a shell tool instead, set the shell tool window into scrolling mode: Press the **Menu** button (right mouse button) once anywhere in the shell tool window, then select **Enable Scrolling** with the **Select** button (left mouse button).
5. To release your database to a floppy, simply execute step 5 of the SiteMan main menu and follow the directions.Type **E** to go back to the Site Manufacturing (SiteMan) Menu; then type **4** to select the **Merge SiteMan Data with CustMan Data** option; press ENTER.
6. On the **Merge Siteman And Custman Data** menu, select **Merge All SiteMan and CustMan Data in One Operation**; press ENTER. Two kinds of errors can occur during the merge:
   - Orphans, caused by data inconsistencies: missing data, incorrect data (such as circuit numbers that are in the button spreadsheets but are not referenced in the line spreadsheets) or inconsistencies between the hardware specified in the order form and hardware in the CustMan sheets.
   - XSQL errors, which can lead to corrupt databases that are not capable of loading hardware such as stations. XSQL errors appear only once in the command tool window while the merge process is taking place. Set the command tool window to scroll and watch the display during the merge.

Note *One of the benefits of a scrolling window is that you can scroll backwards to previously displayed windows.*

---

7. Type **Y** to start the merge process.

Note *If XSQL errors are reported, correct them at one. One error in the merge process can have a snowball effect causing many subsequent errors.*

---

8. When the merge is complete, scroll back to the beginning of the merge process and check for any errors that are reported. Press ENTER when finished.
9. Press ENTER again.
10. Type **E** to go back to the **Site Manufacturing (SiteMan)** menu, then type **7** for the **Report** menu; press ENTER.

11. On the **SITEMAN REPORT** menu, press ENTER to go to the **SiteMan Translation Error** reports.
    - Option 1displays the **SiteMan Orphan Reports** menu.
    - Option 2 displays the Tradenet MX System Center **Reports** menu, including Station, Line, Wire, and Trader reports. These reports are vital to the Tradenet MX System installation technicians. Printing out these reports after you have merged the database for the last time can save time when the database gets to the field.
12. Display the orphan reports and check them from top to bottom. Make corrections immediately. Each orphan report displays a row of information taken from a spreadsheet which contains incorrect data. Pipes (|) separate spreadsheet cells. If there is no information in a cell it will look like this: | |. At the end of each orphan is the description of what was incorrect about the data.

Note The database cannot be released until all orphans and SQL errors are fixed.

13. Type **E**; press ENTER, then press ENTER again to go back to the **SITEMAN REPORT** menu.
14. Type **E** to go back to the **Site Manufacturing (SiteMan)** menu.
15. If changes have to be made in SiteMan, press ENTER to select **Configuration Entry Form**. When the configuration order form is displayed, press ENTER to query, then press **s**. When the data is displayed, type **U** to update the information in the form. Press **s** to save the changes. Rerun CGEN option 2. After the configuration has been regenerated, select option 4 to re-merge the SiteMan data with the CustMan data. When the merge is complete, scroll back again and check for any errors. Run all of the SiteMan translation error reports again.
16. If changes have to be made in CustMan, go to the CustMan menu option 3. Launch the spreadsheet interface (Wingz) if necessary. Make changes in the spreadsheets and save the changes. Next select **Create Files for SiteMan**, then re-merge the SiteMan data with the CustMan data. When the merge is complete, scroll back again and check for any errors. Run all of the SiteMan translation error reports again.
17. Once there is a clean merge, you can go on to the next step.

Create Trader Test Groups

After all orphans and SQL errors have been fixed, create trader test group(s) if necessary.

1. Open **Lines** in the PM Sheets.
2. Delete the contents of column **B (Line Button Link).** (Column B is a database building tool; its contents are not used in the create and merge processes.) Then use the CustMan Autofill utility to enter data into rows A1 to Axxx (where xxx is the last row in the sheet). Quit and the save the changes.
3. Open the **Buttons** sheet for the particular test trader group.
4. Put in the required information into the **Button Number**, **Button Class** and **Button Type** columns.
5. In column **G** (**Line Button Link**), use the **CustMan Autofill** utility to enter data into rows A1 to Axxx (where xxx is the last row in the sheet), then quit and save changes.
6. Under **Utilities**, select **Add Lines to Buttons**. Type the trader group number and select **Line Button Link** as the source column; click ENTER.
7. Click **OK** on the message telling you how many buttons rows were updated. Check the information in the **Buttons** sheet and fill out any other necessary columns, then quit and save the changes.

Clean Up Files

Before releasing the database, it is necessary to clean-up some of the files.

1. Open **Lines** in the PM sheets. Delete the contents of column **B (Line Button Link)** and column **I (DEMARC)**. Quit and save changes
2. Open **Wires** in the PM Sheets. Delete the contents of column **D (Line Button Link)**. Quit and the save changes.

3. Open **System Information** in the PM Sheets. Delete the contents of columns **L** and **P**. Quit and the save changes.
4. Repeat steps 1-16 in Merge SiteMan and CustMan Data (Create files for SiteMan, Merge and Error Check).

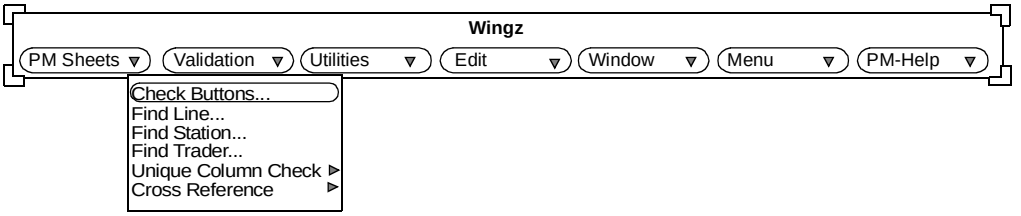
Release Final Database

After all orphans and SQL errors have been fixed, go to the **Site Manufacturing (SiteMan)** menu, type **6** to select **Release Final Database and Copy the Database to Diskette**, then press ENTER.

Run DataMan again and select your project, then run the spreadsheet interface (I-View). When you are finished making changes, follow the steps below to release the final database.

1. Insert a high density diskette into the floppy disk drive, type **Y** to continue, then press ENTER.
2. Type **Y** to format the diskette, then press ENTER. Press ENTER again to start formatting the diskette.
3. Press ENTER to continue.
4. When asked to format another diskette, type **N** then press ENTER. Insert the formatted diskette back into the drive and press ENTER. The database is copied to the diskette.
5. Type **N** when asked to make a copy of the database, then press ENTER twice.
6. Label the diskette with the necessary site information and current date.
7. If you are required to run the System Center on the SPARCstation or run I-View, first you must quit all windows and then exit back to the **syscen login:** prompt.
8. At the **syscen login:** prompt, log in as *root***.**
9. At the **root:** prompt, type **`cd /usr/export/home/syscen`**; press ENTER.
10. At the **root:** prompt, type **`exit`**; press ENTER.
11. At the **syscen login:** prompt, log in to the required account.

Chapter 4 CustMan Utilities

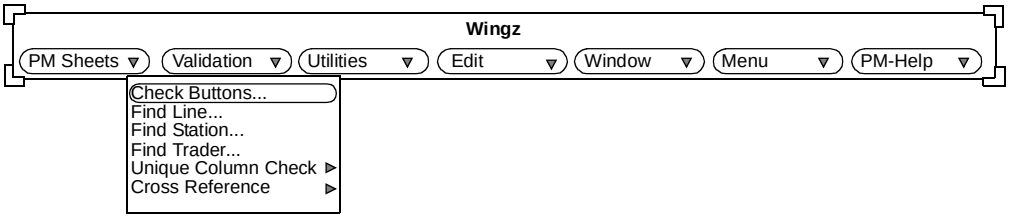


INTRODUCTION

This chapter describes the utilities available to support your use of CustMan. You can select these utilities from drop-down menus on the CustMan main menu bar.

Validation Menu

FIGURE 4-1 CustMan (Wingz) Validation Menu



The Validation contains utilities that can be useful throughout the data entry process, and particularly to verify data entries prior to merging. There are two kinds of utilities:

- utilities for finding specific entries
- utilities for data verification.

Find Utilities

There are four Find utilities:

1. Check Buttons
2. Find Line …
3. Find Station …
4. Find Trader …

Each Find utility corresponds to its associated PM spreadsheet or sheets; for example, **Find Line** is the utility for the **Lines** Spreadsheet. After you select a Find function you see a dialog box that prompts for search parameters.

Check Buttons

1. When you select **Check Buttons**, you see a dialog box that prompts you for a trader group number
2. After you have selected a trader group, you are prompted to enter a specific target text string (destination name). Spelling and capitalization must match the button exactly.
3. Specify a column to search. Each radio button in the dialog box corresponds to a column on the **btn.wkz** spreadsheet.

Button Number	A
Button Label	D
Circuit Number	F
Line Button Link	
System Descriptor	H

Find Line/Station/Trader

These find routines function in the same way as **Check Button**, except that you need not specify a Trader Group. A dialog boxes prompts you specify an information type (for example, trader name) and enter a text string. Again, spelling and capitalization must be exact.

Data Verification **Utilities**

Unique Column Check

When you click **Unique Column Check**, the system lists seven duplication-checking routines:

Auto Check Sheet Column

This utility checks a previously selected range of cells for duplicate entries, such as circuit numbers in the **Lines** spreadsheet.

Any Sheet

This utility checks any column of any sheet for duplicate entries.

Valid source sheets for the **Any Sheet** utility are:

PMSYSTEM	PMTRADGP	PMBILLGP
PMMOGRNA	PMSTMOGP	PMSTATIN
PMTRADER	PMLINES	PMWIRES
PMHUNTGP	BTN	

Sanity Checks

Buttons Spreadsheet Sanity Check: Checks the **Buttons** spreadsheet(s) for duplicate and illegal button numbers.

Lines Spreadsheet Sanity Check: Checks the **Lines** spreadsheet for duplicate circuit numbers and button labels.

Stations Spreadsheet Sanity Check: Checks the **Stations** spreadsheet for duplicate station and desk location numbers.

Traders Spreadsheet Sanity Check: Checks the **Traders** spreadsheet for duplicate TRID numbers.

Wires Spreadsheet Sanity Check: Checks the **Wires** spreadsheet for duplicate cable circuit Ids and demarc locations.

Cross Reference

Any Column To Any Column

This utility cross checks any column of any sheet to any column of any other sheet.

Buttons With No Lines

This utility cross checks a specified **Buttons** spreadsheet for references to lines that do not appear in the **Lines** spreadsheet.

Lines With No Wires

This utility cross checks the **Lines** and **Wires** spreadsheets and reports lines that do not have corresponding cable circuit Id numbers.

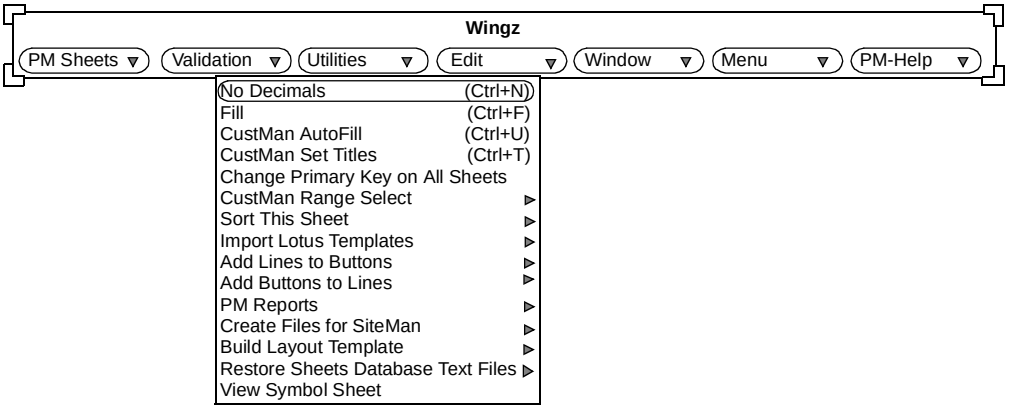
Traders With No Groups

This utility cross checks the **Traders** spreadsheet and reports on traders with missing group information.

Utilities Menu

The utilities on this menu perform operations on the CustMan spreadsheets.

FIGURE 4-2 CustMan/Wingz Utility Menu



No Decimals

In the currently active spreadsheet, this utility:

- removes decimal points from numeric values
- center justifies all cells.

The **No Decimals** utility can be invoked from the keyboard using accelerator keys Ctrl + N.

Before **No Decimals**

	B
1	1229.0000

After **No Decimals**

	B
1	1229

Fill

The fill function enters incrementing numeric values into a pre-selected range of cells.

The numeric value of the first selected cell determines the starting value, (for example 1-10, 18-42).

To fill the cell range G3-G10 with consecutive channel numbers, take the following steps:

1. Enter the start value in the first cell.
2. Use the mouse to select (highlight) the cell range.
3. From the Utilities Menu select the **Fill** option, or press Ctrl + F.

CustMan AutoFill

CustMan AutoFill resembles **Fill**; however it enables you to add an alphanumeric string before or after the numeric value.

AutoFill is particularly useful when entering data such as sequential circuit numbers (Circuit ID), and button labels (sequential extension numbers).

Instructions for the use of the AutoFill utility are given in the dialog box.

CustMan Set Titles

Set Titles facilitates data entry on large spreadsheets by allowing you to lock one or more reference columns. The locked columns remain visible no matter how far you scroll left or right. This enables you to enter data in remote spreadsheet columns while displaying reference columns. Several columns may be locked by entering the total number of columns in the **Select Title Column** dialog box.

CustMan Range Select

The four Range Select utilities facilitate the editing of data already entered on a spreadsheet.

1. **SiteMan Merge Cell Range** - Selects every populated cell of the currently selected spreadsheet.
2. **Text Cell Ranges** - Selects every cell in the currently selected spreadsheet that is populated with text (a string, either alphabetical or alphanumeric.).
3. **Value Cell Ranges** - Selects every cell in the currently selected spreadsheet that contains a numeric string.
4. **Last Cell** - Select the last cell of the last populated line in the currently selected spreadsheet.

Sort This Sheet

Sorting routines can greatly simplify data entry, editing and troubleshooting.

The configuration and setup parameters available to customize the results of a sort are shown in the **Sort This Sheet** submenu option box. They are:

1. **Sort Now**: Once the Range and Primary columns have been selected, this command sorts the selected spreadsheet.
2. **Create Range** - Selects every populated cell of the selected spreadsheet and prepares the data in the sheet for a sort.
3. **Ascending Key** - Selects the primary sort column; specifies a sort in ascending order.
4. **Descending Key** - Selects the primary sort column; specifies a sort in descending order.
5. **Add Ascending Key** - Selects the secondary sort column; specifies a sort in ascending order.
6. **Add Descending Key** - Selects the secondary sort column; specifies a sort in descending order.

Note **Sort This Sheet** *is intended for use on small to medium size databases only (a maximum of 1500 rows of data)*

Import Lotus Templates

It is possible for a customer to develop the site/trader information for their database. A template for Lotus 1-2-3, which will run on a PC, can be completed by the customer and then imported into CustMan.

Note *It is important that this data be checked and rechecked before importation.*

Not all the spreadsheets are included among the Lotus templates. Trader data, trader group data, billings group data, button data, and lines data are included. For more information see *The Lotus Templates* on page C-6.

Add Lines to Buttons/Buttons to Lines

The *lines to buttons* and *buttons to lines* utilities are designed to speed the data entry and help assure the accuracy of line and **Buttons** spreadsheets.

As a practical matter, you would use only one of the two. The convention is to enter data into the **Buttons** spreadsheets and then use the **Add Buttons to Lines** utility to populate the **Lines** spreadsheet.

Add Lines has only one option, **Import Lines from PMLINES.WKS**.

Add Buttons has three options:

- **Transfer One Trader's Buttons**
- **Transfer All Buttons to Lines**
- **All Buttons with Verification.**

PM Reports

The PM reports are used principally for data verification. There are three options on the submenu:

1. Line Appearances - Provides a line usage report on all trader groups. Lines are reported in the order that they appear in the **Lines** spreadsheet, with references to the group number and button number that they appear on.
2. Unassigned Lines - Reports on any line referenced in the **Lines** spreadsheet that is not used in the **Buttons** spreadsheets.
3. Buttons With No Lines - Reports on any line referenced in the **Buttons** spreadsheets that was not referenced in the **Lines** spreadsheet.

Create Files for SiteMan

This utility is used to create text file images of the CustMan spreadsheets to be used during the database merge process.

There are two options: **Create All Sheets**, and **Create Individual Sheets**. The individual sheet option is used to update specific text file images which have been modified during the editing or troubleshooting process.

Build Layout Template

When creating the **Buttons** spreadsheets, it is possible to view the buttons in Face Layout format. In order to do this, however, it is necessary to create a layout template that coincides with the station equipment configuration. There are three template formats for this purpose:

- Control Module Layout
- PCD Module Layout
- EL Module Layout

Shown below is the Build Layout Template utility menu together with the corresponding PM Sheets - Buttons menu

FIGURE 4-3 Build Layout Template submenu

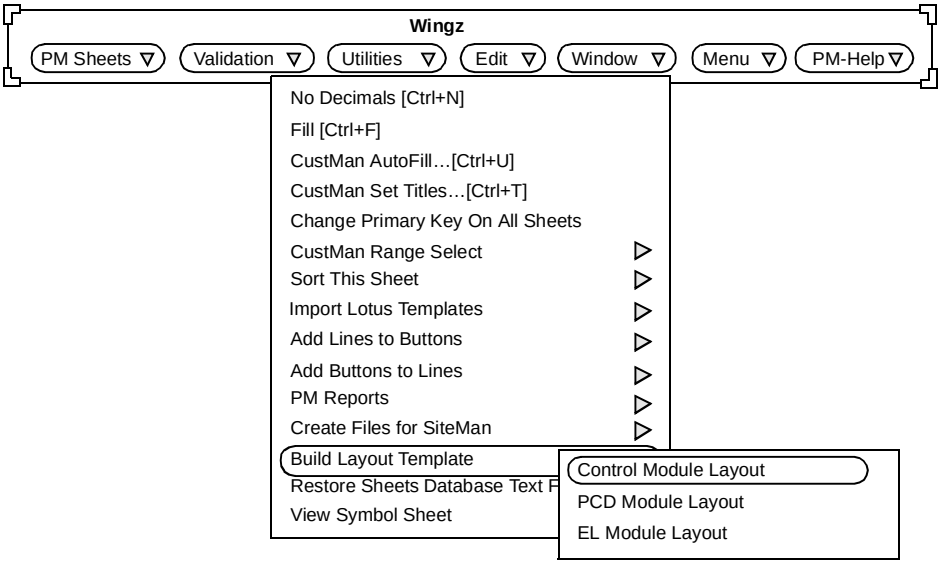
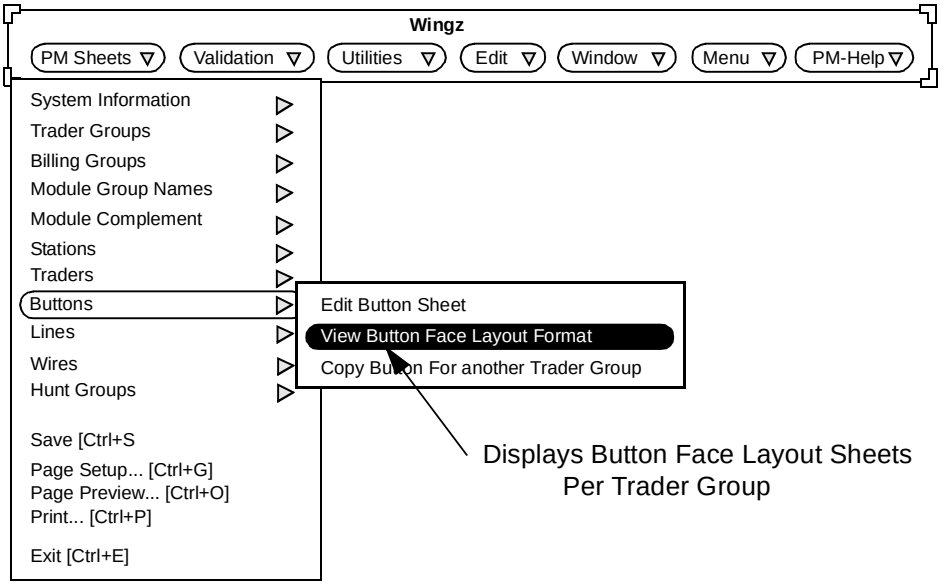


FIGURE 4-4 PM Sheets - Buttons Submenu



Restore Sheets Database Text Files

This menu option is not commonly used. It was intended to be used as a method of importing, or constructing, CustMan spreadsheets from an existing database, particularly when enlarging a site system, for example from a mini to a half triplet.

View Symbol Sheet

This utility displays the list of Engineering-defined group and parameter names.

The **Engineering Defined Group and Parameter Names** spreadsheet displays name, label and description for:

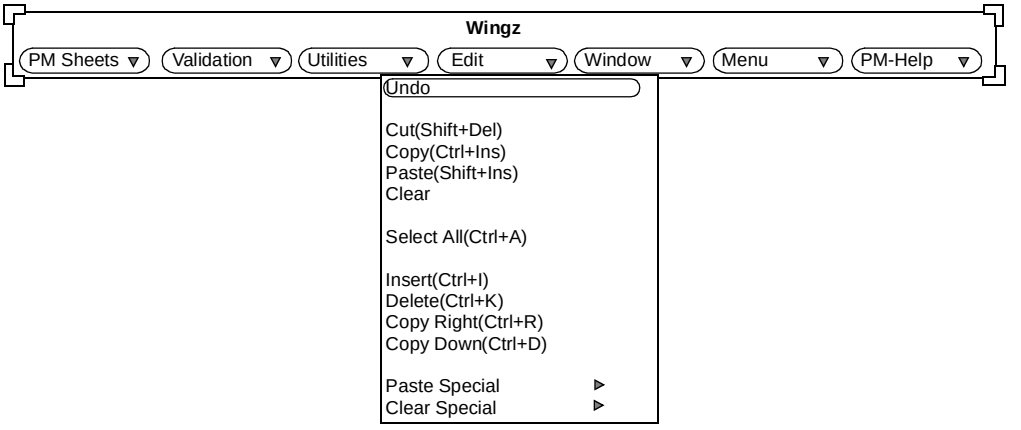
- Country codes
- Label Format
- Traffic Destination
- Button Sequence code
- Button class
- Button incoming action
- cb_version
- Module types
- Station types
- Button type

Warning! ***Never change anything on this sheet; if you do, the translation will fail when moving the data to the Informix database.***

Edit Menu

The Edit menu provides editorial functions which can be initiated either through the menu or accelerator keys. You should try to memorize the accelerator keys you use most often.

FIGURE 4-5 CustMan/Wingz Edit Menu



Undo
Undo restores the spreadsheet to its state prior to the last edit function.

Cut
Cut copies and deletes data from selected cells. The data can be pasted to a new location.

Copy
This function copies data from selected cells. Generally used with the paste function.

Paste
Pastes cut or copied data into selected cells.

Clear
Clear removes data from selected cells *forever.*

Select All
Selects the entire spreadsheet; all rows, all columns.

Insert
Inserts a new, empty row into a spreadsheet.

Delete
Removes a row from a spreadsheet.

Copy Right
Copies data from one cell to adjacent cells to the right.

Copy Down
Copies data from one cell to the adjacent cells below.

Paste Special

This function is not used

Clear Special

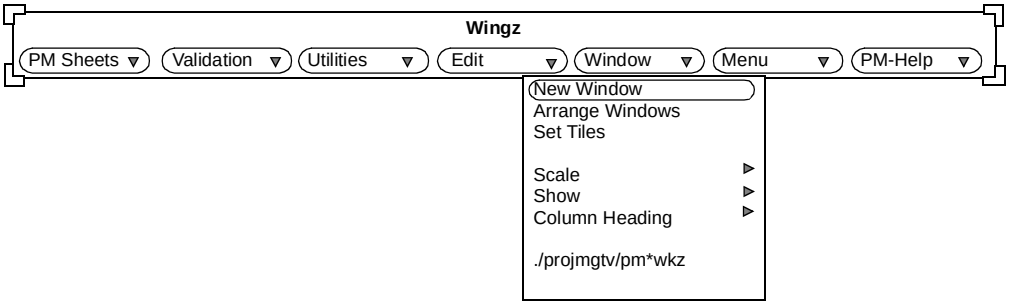
There are three options:

1. Format: Removes no decimals.
2. Formulas: Removes formulas but leaves the data.
3. Data: Removes all data.

Window Menu

The window menu provides options which may be used to manipulate the spreadsheet windows in various ways.

FIGURE 4-6 CustMan/Wingz Window Menu



Warning! ***Do Not Use the New Window or Set Titles options.***

New Window creates a temporary copy of the selected spreadsheet. Since it is possible to make data entries on the duplicate spreadsheet which will not be automatically transferred to the original, there is a significant danger of lost or inaccurate data.

Set Titles can be accomplished using the CustMan Set Titles option found on the Utilities Menu.

New Window
Do not use.

Arrange Windows
Rearranges and evenly displays all open spreadsheets

Set Titles
Do not use.

Scale
Scale re-sizes the selected spreadsheet. Depending on the percentage you select from the submenu, more or less of the spreadsheet will be visible.

Note *If the desired size cannot be attained using the standard scale percentages, choose Other … and enter an intermediate value between the two closest standard values, for example 78%, 86%.*

Show

The Show utility enables you to customize the appearance of the selected spreadsheet by turning off/on such physical elements as the cell or title grids, the entry bar, the heading grid, etc. It is even possible to turn off the entire spreadsheet, leaving the spreadsheet window apparently empty. The default settings should already provide an acceptable presentation.

Note *Since it is possible to become confused if spreadsheet elements are missing, the use of this option is not recommended.*

Column Heading

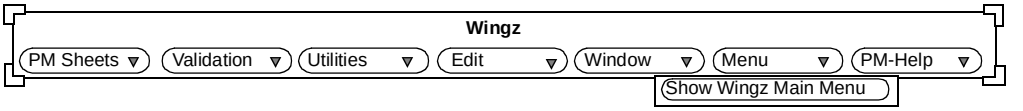
This utility enables you to change column titles from alphanumeric to numeric values. The default is column/row designation A1..B1. It is sometimes useful to change the column titles to numbers.

Note *When you select data from a dialog box without having selected a cell/column position, an error message will appear telling you that the cursor has not been positioned in a specific column. The column is identified by a numeric value. This is not a problem if the target column designation is* **2** *— just count over two columns from the left. If, however, the target column is 18 it is more difficult to count over 18 columns. Also, it is not immediately clear which is the correct column when they are designated A,B,C, etc. This is a good time to change the column headings.*

Menu

This menu enables you to toggle between the CustMan Main Menu bar and the Wingz Main Menu bar.

FIGURE 4-7 CustMan/Wingz Menu



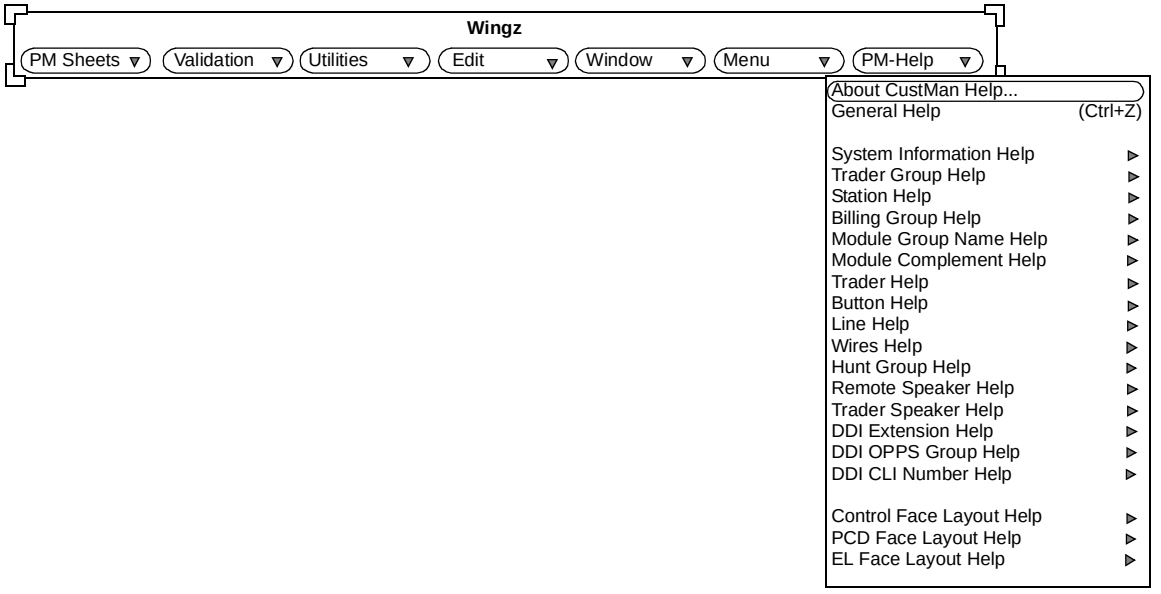
The **Show Wingz Main Menu** utility takes you out of the Project Management view and invokes the Wingz Menu Bar.

To return to the Project Management view, select **Project Mgt. Menu** from the Wingz Menu Bar.

PM HELP

Some useful information is also provided in the PM Help menu. The CustMan Help menu, when selected, will display the CustMan Version, Country Base Version and Selected Country Name, and a list of Accelerator Keys.

FIGURE 4-8 CustMan/Wingz PM-Help Menu



Chapter 5 CustMan Help

Con/Pag/S	-	PG	-	2/FTS8/3hm	-	HF/IS
1		2		3		4

INTRODUCTION

This appendix provides guidance in selecting and entering data into the CustMan PM spreadsheets.

The first three pages contain:

- a relational table to help you determine the order for completing the PM spreadsheets
- accelerator keys (keyboard short cuts) to speed your work
- a look-up list of button sequences

The rest of the appendix is organized in the following order:

- stations
- module groups
- buttons
- lines
- wires

SPREADSHEET RELATIONAL TABLE

This table provides information about the CustMan spreadsheets.

TABLE 5-1 Spreadsheet Relational Table

NAME	DESCRIPTION	FILE NAME	Requires The Following Exist Sheet In Order To Properly Be Open	Requires The Following Sheets To Be Complete before it can be filled out	Contains Cells With Relational Data.
System	System Configuration Sheet	pmsystem.wkz			
Trader Group	Trader Group Sheet	pmtradgp.wkz			
Billing Group	Billing Group Sheet	pmbillgp.wkz			
Module Group	Module Group Names Sheet	pmmogrna.wkz			
Module Comp.	Module Group and Position Sheet	pmstmogp.wkz		pmmogrna.wkz	pmmogrna.wkz
Stations	Station List Sheet	pmstatin.wkz		pmmogrna.wkz	pmmogrna.wkz
Traders	Traders List Sheet	pmtrader.wkz	pmsystem.wkz	pmmogrna.wkz, pmtradgp.wkz, pmbillgp.wkz	pmmogrna.wkz, pmtradgp.wkz, pmbillgp.wkz
Buttons	Trader Group Button Sheets	btn1.wkz		pmtradgp.wkz	pmlines.wkz
Lines	Line Sheet	pmlines.wkz	pmsystem.wkz		pmwires.wkz
Wires	Wires Sheet	pmwires.wkz	pmsystem.wkz		
Hunt Group	Hunt Group Sheet	pmhuntgp.wkz			pmlines.wkz

ACCELERATOR KEYS (KEYBOARD SHORTCUTS)

When entering or modifying data in CustMan, keyboard selection of commands can help speed up the process. They're great time savers because when you use them, you don't have to move your hand from the keyboard to the mouse each time you want to choose a command. The following table shows the available preset keyboard combinations.

TABLE 5-2 CustMan Accelerator Keys

DESCRIPTION	Accelerator Keys		DESCRIPTION	Accelerator Keys	
FILE RELATED			**PM-HELP (stations)**		
Save	Ctrl+	S	Station Type Column	Ctrl+	6
Page Setup...	Ctrl+	G	Module Group Name Column	Ctrl+	7
Page Preview...	Ctrl+	O	Station Group Name Column	Ctrl+	8
Print...	Ctrl+	P	Extended Help		
Printer Setup...	Ctrl+	Q	PM-HELP (traders)		
Exit (Halt Wingz)	Ctrl+	E	Trader Group Name Column	Ctrl+	V
UTILITIES			Billing Group Name Column	Ctrl+	B
No Decimals	Ctrl+	N	Module Group Name Column	Ctrl+	M
Fill	Ctrl+	F	Hunt Group Number Column	Ctrl+	H
CustMan AutoFill...	Ctrl+	U	Extended Help		
CustMan Set Titles...	Ctrl+	T	PM-HELP (Buttons)		
EDIT			Button Class Column	Ctrl+	1
Cut	Shift+	Del	Button Type Column	Ctrl+	2
Copy	Ctrl+	Ins	Incoming Action Column	Ctrl+	3
Paste	Shift+	Ins	Key Sequence Codes		
Select All	Ctrl+	A	Station Configuration		
Insert	Ctrl+	I	Change Primary Source column		
Delete	Ctrl+	K	Extended Help	Ctrl+	X
Copy Right	Ctrl+	R	PM-HELP (lines)		
Copy Down	Ctrl+	D	Line Group Name Column	Ctrl+	L
PM-HELP (System)			Change Primary Source column		
Country Name Column	Ctrl+	C	Extended Help		
Traffic Recording Device			PM-HELP (wires)		
Extended Help			Wire Group Name Column	Ctrl+	W
PM-HELP (Trader Gp.)			Extended Help		
Extended Help			PM-HELP (Hunt Group)		
PM-HELP (Billing Gp.)			Extended Help		
Extended Help			PM-HELP (cntl face layout)		
PM-HELP (Module Gp.)			Extended Help		
Extended Help			PM-HELP (PCD face layout)		
PM-HELP (Module Comp.)			Extended Help		
Module Group Name Column	Ctrl+	9	PM-HELP (EL face layout)		
Module Type Name Column	Ctrl+	0	Extended Help		
Extended Help			GENERAL HELP	Ctrl+	Z

MX BUTTON SEQUENCES

Button sequences, also known as function sequences, are similar to *macros*. That is, you can depress a single button and execute a sequence of operations (button presses). The sequence can include both control and module buttons, as well as special hard function key codes.

TABLE 5-3 MX Button Sequences - Alphanumeric Order

DESCRIPTION	SEQ NUMBER	DESCRIPTION	SEQ NUMBER	DESCRIPTION	SEQ NUMBER
Active HS Recall	1115	Index Dial	1111	Ringer Volume Dec	1104
Auto Hunt	1112	Intercom Features	1205	Ringer Volume Inc	1103
Call to Trader	1203	Left HS Conference	1027	Speaker Intercom	1212
Call Specific Line	1202	Left Transfer	1026	Speaker Button	1210
Clear Message Queue	1121	Left HS Hold	1024	Show Speaker Status	1214
Data Link Toggle	1116	Left HS Recall	1113	Tx Vol Increase	1310
Digit #	1046	Left HS Release	1022	Tx Vol Decrease	1311
Digit Star *	1044	Left HS Select	1021	Xmit Override	1047
Digit 0	1045	Left HS Signal	1023		
Digit 1	1035	Message	1110		
Digit 2	1036	MX Feature Key	1299	Pagination Mod Button # 1	0001
Digit 3	1037	Place Holder	1119	Pagination Mod Button # 2	0002
Digit 4	1038	Page Select	1025	Pagination Mod Button # 3	0003
Digit 5	1039	Page Dec	1109	Pagination Mod Button # 4	0004
Digit 6	1040	Page Inc	1108	|	
Digit 7	1041	Privacy On/Off	1208	|	
Digit 8	1042	Privacy Toggle	1211	Pagination Mod Button # 597	0597
Digit 9	1043	Program	1032	Pagination Mod Button # 598	0598
Display Brite Dec	1106	Receive Volume Decrease	1102	Pagination Mod Button # 599	0599
Display Brite Inc	1105	Receive Volume Increase	1101	Pagination Mod Button # 600	0600
Do Not Disturb	1125	Right HS Conference	1034		
DTMF Vol Decrease	1313	Right HS Transfer	1033		
DTMF Vol Increase	1312	Right HS Hold	1031		
Group Answer Back	1253	Right HS Recall	1114		
Hands-Free DND	1048	Right HS Release	1029		
Hands-Free Mute	1049	Right HS Select	1028		
Hold Toggle Flip	1304	Right HS Signal	1030		

TABLE 5-4 **MX Button Sequences - Numeric Order**

SEQUENCE NUMBER	DESCRIPTION		SEQUENCE NUMBER	DESCRIPTION
0001	Pagination Module Button # 1		1045	Digit 0
0002	Pagination Module Button # 2		1046	Digit #
0003	Pagination Module Button # 3		1047	Xmit Override
0004	Pagination Module Button # 4		1048	Hands-Free DND
|			1049	Hands-Free Mute
|			1101	Receive Volume Increase
0597	Pagination Module Button # 597		1102	Receive Volume Decrease
0598	Pagination Module Button # 598		1103	Ringer Volume Inc
0599	Pagination Module Button # 599		1104	Ringer Volume Dec
0600	Pagination Module Button # 600		1105	Display Bright Inc
			1106	Display Bright Dec
			1108	Page Inc
			1109	Page Dec
1021	Left HS Select		1110	Message
1022	Left HS Release		1111	Index Dial
1023	Left HS Signal		1112	Auto Hunt
1024	Left HS Hold		1113	Left HS Recall
1025	Page Select		1115	Active HS Recall
1026	Left Transfer		1116	Data Link Toggle
1027	Left HS Conference		1119	Place Holder
1028	Right HS Select		1121	Clear Message Queue
1029	Right HS Release		1125	Do Not Disturb
1030	Right HS Signal		1202	Call Specific Line
1031	Right HS Hold		1203	Call To Trader
1032	Program		1205	Intercom Features
1033	Right HS Transfer		1208	Privacy On/Off
1034	Right HS Conference		1210	Speaker Button
1035	Digit 1		1211	Privacy Toggle
1036	Digit 2		1212	Speaker Intercom
1037	Digit 3		1214	Show Speaker Status
1038	Digit 4		1253	Group Answer Back
1039	Digit 5		1299	MX Feature Key
1040	Digit 6		1304	Hold Toggle Flip
1041	Digit 7		1310	Tx Vol Increase
1042	Digit 8		1311	Tx Vol Decrease
1043	Digit 9		1312	DTMF Vol Increase
1044	Digit Star *		1313	DTMF Vol Decrease

STATIONS SPREADSHEET (PMSTATIN.WKZ)

Examples of the eight supported station configurations are shown in the table below

TABLE 5-5 Station Configurations

A	B	C	D	E
STATION NUMBER	**STATION TYPE**	**DESK/FLOOR LOCATION**	**USER-DEFINABLE MODULE GROUP NAME**	**PRE-DEFINED STATION GROUP NAME**
Number 1 - 9999	**(Use Dialog Box)**	**char (16)**	**(Use Dialog Box)**	**(Use Dialog Box)**
1	TRADENET	Loc - 001	CONTROL-DTP	TRADENET
2	UNEQUIPPED		CONTROL-DTP	TRADENET
3	ISDN TURRET	Loc - 025	CON/PAG-FTS8/7H	ISDN-MX
4	UNEQUIPPED		CON/PAG-FTS8/7H	ISDN-MX
5	KANJI TURRET	Loc-050	H/CON/PAG-FTS8/7H	ISDN-MX
6	UNEQUIPPED		H/CON/PAG-FTS8/7H	ISDN-MX
7	ISDN KEYSTATION	Loc - 075	ISDN ATT 7507	ISDN_KEYSET
8	UNEQUIPPED		ISDN ATT 7507	ISDN_KEYSET

Notes

- The User-Definable Module Group Name column shows samples of typical module group names.
- Station 1 is an analog tradenet turret.
  Station 3 is a digital BRIC turret.
  Station5 is a digital high resolution BRIC turret.
  Station 7 is an example of an ISDN telephone.
- Stations 2, 4, and 6 are examples of unequipped positions.
  (These are very rarely used.)

Module Group Names

The following are examples of module group names. They are suggestions for the majority of module combinations that you might come across when building a database.

Note *These are only suggestions. Whatever name you assign to a module group, be sure to use it consistently throughout the database (spelled exactly the same, including capitalization and underscoring).*

Module Abbreviations

When creating abbreviations to represent modules, you should remember that, in all cases, they should be as descriptive as possible. They should identify the physical hardware contained in the module configuration and strive to indicate the number of dynamic, semi-dynamic, and intercom channels per FTS (and even the number of handsets, if possible). The following is a list of module abbreviations which should be used when creating module groups.

TABLE 5-6 Module Abbreviations

Abbreviation	Description
CNTL	Tradenet Analog Control Module
EL	Tradenet Analog EL Module
PCD	Tradenet Analog PCD Module
Touch Screen	Tradenet Analog TouchScreen Module
Sp	Third Party Analog Orator
Con	ISDN Standalone Control Module
Con/Pag	ISDN Consolidated Control/Pagination Module
Con/PCD	ISDN Consolidated Control/PCD Module
H/Con	High Resolution ISDN Standalone Control Module
H/Con/Pag	High Resolution ISDN Control/Pagination Module
H/Con/PCD	High Resolution ISDN Control/PCD Module
Pg	ISDN External Pagination Module
FTS4	ISDN FTS4 Module
FTS8	ISDN FTS8 Module
INLN	ISDN
Pod	Goldman 8 Channel Speaker Module
FS24	ISDN Model Two FTS4
FS28	ISDN Model Two FTS8
HF	ISDN Hands-Free Module (Add On Intercom Module)
ISDN ATT 7505	ISDN Station Model ATT 7505
ISDN ATT 7506	ISDN Station Model ATT 7506
ISDN ATT 7507	ISDN Station Model ATT 7507
ISDN ATT 8503	ISDN Station Model ATT 8503
ISDN ATT 8520	ISDN Station Model ATT 8520
IPC Keyset	TradePhone MX
R	Indicates Connection Through Remote Turret Device (“R” must precede Module Group description)
D	Indicates Dual Talkpath Turret (“D” should follow Turret description)
S	Indicates Single Talkpath Turret (“S” should follow Turret description)
I	Indicates Assignment of Intercom Channel (“I” should follow the Speaker description)
m	Indicates Assignment of Microphone to Speaker Module (“m” should follow the speaker description)
h	Indicates the number of Hoot (semi-dynamic) Channels that are assigned to a speaker configuration
ch	Indicates the total number of speaker channels per module (i.e. Intercom+Dynamic+semi-dynamic). Used only when an FTS module is under programmed, i.e. six channel FTS

Module Group Naming Conventions

The following is an example to show how to construct a module group name using the abbreviations given previously.

Module Group Configuration Description

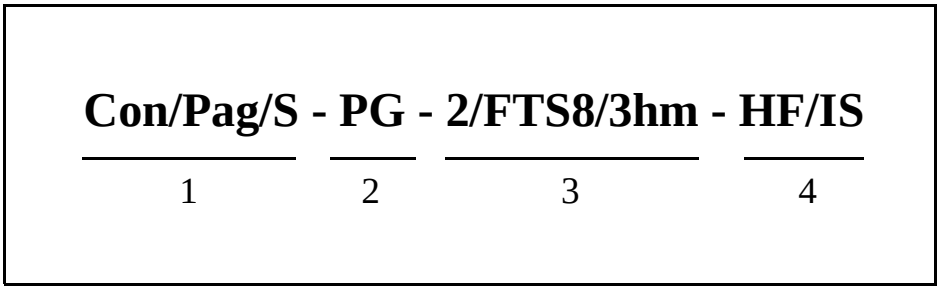
1. Single-Handset ISDN Control Pagination Module
2. 1 - External Pagination Module
3. 2- ISDN FTS8 modules with microphone (three hoots assigned)
4. hands-free module enabled for intercom and speakerphone

Creation Rules

- Parts of the same physical modules are separated using a forward slash (/).
- Separate physical units are separated using a dash (-)

Naming Example:

Using the description and rules given above, create a module group name.



Use a name of up to 40 characters for the module group you created. (Prior to Release 8.0.2, the name could only be up to 16 characters.) This is the name that appears in the **Module Groups** pick list.

Use the following formula for creating module group names:

R<turret or keyset type>/<# of handsets>-Pg-<# of speakers>/<speaker type>/<# of hoots>hm-HF/IS

- separate portions of the module group with hyphens (-)
- use slashes (/) to separate distinct parts of each portion
- Include **R** in the name only if you are connecting through a remote turret device
- if **<# of handsets>** is one, use **S** and if **<# of handsets>** is two, use **D**
- only include **Pg** in the name if you have an additional ISDN external pagination module
- only include **<# of hoots>h** in the name if you have hoot speakers
- only include **m** in the name if you have a microphone
- only include **HF/IS** in the name if you have an ISDN hands free module (add on intercom module)
- see the following table for abbreviations for **turret or keyset type** and **speaker type**

TABLE 5-7 Module Group Name Abbreviations

Abbreviation	Description
CNTL	Tradenet Analog Control Module
EL	Tradenet Analog EL Module
PCD	Tradenet Analog PCD Module
TouchScreen	Tradenet Analog TouchScreen Module
Sp	Third Party Analog Orator
Con	ISDN Standalone Control Module
Con/Pag	ISDN Standalone Control Module with ISDN Consolidated Pagination Module
ConPag	ISDN Consolidated Control/Pagination Module
Con/PCD	ISDN Consolidated Control/PCD Module
H/Con	High Resolution ISDN Standalone Control Module
H/Con/Pag	High Resolution ISDN Control/Pagination Module
H/Con/PCD	High Resolution ISDN Control/PCD Module
FTS4	ISDN FTS4 Module
FTS8	ISDN FTS8 Module
INLN	ISDN 8 Channel Speaker Pod
FS24	ISDN Model Two FTS4
FS28	ISDN Model Two FTS8
ISDN ATT 7505	ISDN Station Model ATT 7505
ISDN ATT 7506	ISDN Station Model ATT 7506
ISDN ATT 7507	ISDN Station Model ATT 7507
ISDN ATT 8503	ISDN Station Model ATT 8503
ISDN ATT 8510	ISDN Station Model ATT 8510
ISDN ATT 8520	ISDN Station Model ATT 8520
IPC Keyset	TradePhone MX
STIC-Turret	Turret Using a Station Interface Card (STIC) Instead of a BRIC

MODULE GROUP NAMES SPREADSHEET (PMSTMOGP.WKZ)

The following pages contain examples of module group names constructed using the naming convention. They are arranged in groups; analog turrets, digital turrets, and ISDN keysets. Each module group name is identified by a module group Id number. These will be used in subsequent pages to cross-reference the Module Complement spreadsheet with the module group names.

TABLE 5-8 Module Group Names

A	B	C
MX MODULE GROUP ID	**MODULE GROUP NAME**	**MODULE GROUP DESCRIPTION**
Number 1 - 9999	**char (16)**	**char (60)**
Examples of Analog Turrets		
1	CNTL/D	Standalone Analog Control Mod.-ATP
2	CNTL/S	Standalone Analog Control Mod.-STP
3	CNTL/D-EL	Dual Talkpath Control with EL Module
4	CNTL/S-EL	Single Talkpath Control with EL Module
5	CNTL/D-EL-FTS4	Analog Control with EL Module and FTS4
6	CNTL/D-EL-FTS8	Analog Control with EL Module and FTS8
7	CNTL/D-EL-2Sp	Analog Control with EL Mod. + 2 Orators
8	CNTL/D-EL-FTS8-2SP	Analog Cntl with EL, FTS8 & 2 Orators
9	CNTL/D-TouchScreen	Analog Control Mod. with Touchscreen Mod.
10	CNTL/D-PCD-EL	Analog Control with PCD & EL Mod.
Examples of ISDN Keysets		
11	ISDN ATT 7505	ISDN Station Model ATT 7505
12	ISDN ATT 7506	ISDN Station Model ATT 7506
13	ISDN ATT 7507	ISDN Station Model ATT 7507
14	ISDN ATT 8503	ISDN Station Model ATT 8503
15	ISDN ATT 8510	ISDN Station Model ATT 8510
16	ISDN ATT 8520	ISDN Station Model ATT 8520
17	ISDN ATT 7505/I	ISDN Station Model ATT 7505 with Intercom
18	ISDN ATT 7506/I	ISDN Station Model ATT 7506 with Intercom
19	ISDN ATT 7507/I	ISDN Station Model ATT 7507 with Intercom
20	ISDN ATT 8503/I	ISDN Station Model ATT 8503 with Intercom
21	ISDN ATT 8510/I	ISDN Station Model ATT 8510 with Intercom
22	ISDN ATT 8520/I	ISDN Station Model ATT 8520 with Intercom

A	B	C
MX MODULE GROUP ID	**MODULEGROUP NAME**	**MODULE GROUP DESCRIPTION**
Number 1 - 9999	**char (16)**	**char (40)**
	Examples of ISDN Turrets	
1	Con/D	ATP - ISDN Standalone Control Mod.
2	Con/S	STP - ISDN Standalone Control Mod.
3	Con/Pag/D	ATP - ISDN Control / Pagination Module
4	Con/Pag/S	STP - ISDN Control / Pagination Module
5	Con/PCD/D	ATP - ISDN Control / PCD Module
7	Con/PCD/S	STP - ISDN Control / PCD Module
8	Con/Pag/D-PCD	ATP - ISDN Control / Pag. Mod. with Ext. PCD Mod.
9	Con/Pag/D-Pg	ATP - ISDN Control / Pag. Mod. with Ext. Pag. Mod.
10	Con/Pag/D-2/Pg	ATP - ISDN Control / Pag. Mod. with 2 Ext. Pag. Modules
11	Con/Pag/D-FTS4	ATP - ISDN Control / Pag. Mod. with ISDN FTS4
12	Con/Pag/D-FTS8	ATP - ISDN Control / Pag. Mod. with ISDN FTS8
13	Con/Pag/D-FTS4/m	ATP - ISDN Control / Pag. Mod. with ISDN FTS4 with Mic
14	Con/Pag/D-FTS8/m	ATP - ISDN Control / Pag. Mod. with ISDN FTS8 with Mic
15	Con/Pag/D-FTS4/ml	ATP - ISDN Control / Pag. Mod. with ISDN FTS4 with Mic & Int
16	Con/Pag/D-FTS8/ml	ATP - ISDN Control / Pag Mod with ISDN FTS8 with Mic & Int
17	Con/Pag/D-FTS8/4ch	ATP - ISDN Cntl/Pag. Mod. with 4 ch. ISDN FTS8
18	Con/Pag/D-FTS8/4chm	ATP - ISDN Cntl/Pag. Mod. with 4 ch. ISDN FTS8 with Mic
19	Con/Pag/D-FTS8/4chlm	ATP - ISDN Cntl/Pag Mod with 4 ch. ISDN FTS8 with Mic & Int
20	Con/Pag/D-FTS4/2h	ATP - ISDN Cnt/Pag. Mod. with ISDN FTS4/2Hoots
21	Con/Pag/D-FTS8/7h	ATP - ISDN Cnt/Pag. Mod. with ISDN FTS8/7Hoots
22	Con/Pag/D-FTS4/2hm	ATP - ISDN Cnt/Pag. Mod. with ISDN FTS4/2Hoots with Mic
23	Con/Pag/D-FTS8/7hm	ATP - ISDN Cnt/Pag. Mod. with ISDN FTS8/7Hoots with Mic
24	Con/Pag/D-FTS4/2hlm	ATP - ISDN Cnt/Pag Mod with ISDN FTS4/2Hoots with Mic & Int
25	Con/Pag/D-FTS8/7hlm	ATP - ISDN Cnt/Pag Mod with ISDN FTS8/7Hoots with Mic & Int
26	Con/Pag/D-2/FTS4	ATP - ISDN Cntl/Pag. Mod. with two ISDN FTS4s
27	Con/Pag/D-FTS/4&8	ATP - ISDN Cntl/Pag- 1 FTS4{1st} & 1 FTS8{2nd}
28	Con/Pag/D-FTS/8&4	ATP - ISDN Cntl/Pag- 1 FTS8{1st} & 1 FTS4{2nd}
29	Con/Pag/D-2/FTS8	ATP - ISDN Cntl/Pag. Mod. with two ISDN FTS8s
30	Con/Pag/D-2/FTS8m	ATP - ISDN Cntl/Pag Mod with two ISDN FTS8s with Mic
31	Con/Pag/D-2/FTS8lm	ATP - ISDN Cntl/Pag Mod with two ISDN FTS8s with Mic & Int
32	Con/Pag/D-PCD-FTS8	ATP - ISDN Cntl/Pag. Mod. with Ext PCD and FTS8
33	Con/Pag/D-Pg-FTS8	ATP - ISDN Cntl/Pag. Mod. with Ext Pag Mod and FTS8
34	Con/Pag/D-2/Pg-FTS8	ATP - ISDN Cntl/Pag. Mod. with 2 Ext Pag Mod's and FTS8
35	R-Con/Pag/D-FTS8/3hlm	Remote ATP - Cntl/Pag Mod with FTS8 - 3hoots, Int & Mic
36	Con/Pag/D-FTS8/3hm-HF/I	ATP Cn/Pg, FTS8 / 3ht &Mic, hands-free / Int
37	Con/Pag/D-FTS8/3hm-HF/S	ATP Cn/Pg, FTS8 / 3ht &Mic, hands-free / SpPh
38	Con/Pag/D-FTS8/3hm-HF/IS	ATP Cn/Pg, FTS8 / 3ht &Mic, hands-free / Int & SpPh
39	Con/Pag/D-INLN	ATP - ISDN Cntl/Pag. Mod. with Inline Monitor
40	Con/Pag/D-INLN/2hlm	ATP - ISDN Cntl/Pag. Mod. with Inline Mon 2hoots

MODULE COMPLEMENT Spreadsheet (pmmogma.wkz)

For each of the 61 suggested module group names, the following tables show the modules (type) for each, the physical location for each module by number from left to right, the number of handsets or speaker sources for each module, microphone, the number of shared speakers (hoot ‘n holler) if any, and if there is an intercom. And, they are grouped by type, i.e. analog, digital, and ISDN keysets.

TABLE 5-9 Module Complement - Analog

	A	B	C	D	E	F	G
MOD. GROUP ID	**MODULE GROUP NAME**	**MODULE TYPE NAME**	**MODULE POSITION AT STATION Number 1 to 9**	**NUMBER OF HANDSET OR SPEAKER SOURCES USED BY MODULE**	**MIC.**	**SHARED SPEAKERS (Hoot N Holler) (Set=0; If Not a Speaker)**	**INTERCOM**
	(Use Dialog Box)	**(Use Dialog Box)**	**1 = Left Position**	**number 0 - 16**	**(0 or 1)**	**number 0 - 16**	**(0 or 1)**
1	CNTL/D	TRADENET CNTRLR	1	2	0	0	0
2	CNTLS	TRADENET CNTRLR	1	1	0	0	0
3	CNTL/D-EL	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-EL	40 BUTTON EL	2	0	0	0	0
4	CNTL/S-EL	TRADENET CNTRLR	1	1	0	0	0
	CNTL/S-EL	40 BUTTON EL	2	0	0	0	0
5	CNTL/D-EL-FTS4	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-EL-FTS4	40 BUTTON EL	2	0	0	0	0
	CNTL/D-EL=FTS	ANALOG FTS 4	3	4	0	0	0
6	CNTL/D-EL-FTS8	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-EL-FTS8	40 BUTTON EL	2	0	0	0	0
	CNTL/D-EL-FTS8	ANALOG FTS 8	3	8	0	0	0
7	CNTL/D-EL-2Sp	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-EL-2Sp	40 BUTTON EL	2	0	0	0	0
	CNTL/D-EL-2Sp	ORATOR	3	1	0	0	0
	CNTL/D-EL-2Sp	ORATOR	4	1	0	0	0
8	CNTL/D-EL-FTS8-2Sp	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-EL-FTS8-2Sp	40 BUTTON EL	2	0	0	0	0
	CNTL/D-EL-FTS8-2Sp	ANALOG FTS 8	3	8	0	0	0
	CNTL/D-EL-FTS8-2Sp	ORATOR	4	1	0	0	0
	CNTL/D-EL-FTS8-2Sp	ORATOR	5	1	0	0	0
9	CNTL/D-Touchscreen	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-Touchscreen	TOUCHSCREEN	2	0	0	0	0
10	CNTL/D-PCD-EL	TRADENET CNTRLR	1	2	0	0	0
	CNTL/D-PCD-EL	60 BUTTON PCD	2	0	0	0	0
	CNTL/D-PCD-EL	40 BUTTON EL	3	0	0	0	0

TABLE 5-10 Module Complement - Digit

	A	B	C	D	E	F	G
MOD. GROUP ID		MODULE TYPE NAME	MODULE POSITION AT STATION Number 1 to 9	NUMBER OF HANDSET OR SPEAKER SOURCES USED BY MODULE	MIC.	SHARED SPEAKERS (Hoot N Holler) (Set=0; If Not a Speaker)	INTERCOM
	(Use Dialog Box)	(Use Dialog Box)	1 = Left Position	number 0 - 16	(0 or 1)	number 0 - 16	(0 or 1)
23	Con/D	ISDN STANDALONE	1	2	0	0	0
24	Con/S	ISDN STANDALONE	1	1	0	0	0
25	Con/Pag/D	ISDN CON PAG	1	2	0	0	0
26	Con/Pag/S	ISDN CON PAG	1	1	0	0	0
27	Con/PCD/D	ISDN PAPER	1	2	0	0	0
28	Con/PCD/S	ISDN PAPER	1	1	0	0	0
29	Con/Pag/D-PCD	ISDN CON PAG	1	2	0	0	0
	Con/Pag/D-PCD	60 BUTTON PCD	2	0	0	0	0
30	Con/Pag/D-Pg	ISDN CON PAG	1	2	0	0	0
	Con/Pag/D-Pg	EXT PAGE MOD	2	0	0	0	0
31	Con/Pag/D-2/Pg	ISDN CON PAG	1	2	0	0	0
	Con/Pag/D-2/Pg	EXT. PAGE MOD	2	0	0	0	0
	Con/Pag/D-2/Pg	EXT. PAGE MOD	3	0	0	0	0
32	Con/Pag/D-FTS4	ISDN CON PAG	1	2	0	0	0
	Con/Pag/D-FTS4	ISDN FTS 4	2	4	0	0	0
33	Con/Pag/D-FTS8	ISDN CON PAG	1	2	0	0	0
	Con/Pag/D-FTS4/m	ISDN FTS 8	2	8	0	0	0
34	Con/Pag/D-FTS4/m	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS4/m	ISDN FTS 4	2	4	1	0	0
35	Con/Pag/D-FTS8/m	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/m	ISDN FTS 8	2	8	1	0	0
36	Con/Pag/D-FTS4/ml	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS4/ml	ISDN FTS 4	2	4	1	0	1
37	Con/Pag/D-FTS8/ml	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/ml	ISDN FTS 8	2	8	1	0	1
38	Con/Pag/D-FTS8/4ch	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/4ch	ISDN FTS 8	2	4	0	0	0
39	Con/Pag/D-FTS8/4chm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/4chm	ISDN FTS 8	2	4	1	0	0
40	Con/Pag/D-FTS8/4chlm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/4chlm	ISDN FTS 8	2	4	1	0	1
41	Con/Pag/D-FTS4/2h	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS4/2h	ISDN FTS 4	2	4	0	2	0
42	Con/Pag/D-FTS8/7h	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/7h	ISDN FTS 8	2	8	0	7	0
43	Con/Pag/D-FTS4/2hm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS4/2hm	ISDN FTS 4	2	4	1	2	0
44	Con/Pag/D-FTS8/7hm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/7hm	ISDN FTS 8	2	8	1	7	0
45	Con/Pag/D-FTS4/2hlm	ISDN CON PAGE	1	2	0	0	0

	A (Continued)	B	C	D	E	F	G
	Con/Pag/D-FTS4/2hlm	ISDN FTS 4	2	4	1	2	1
46	Con/Pag/D-FTS8/7hlm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/7hlm	ISDN FTS 8	2	8	1	7	1
47	Con/Pag/D-2/FTS4	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-2/FTS4	ISDN FTS 4	2	4	0	0	0
	Con/Pag/D-2/FTS4	ISDN FTS 4	3	4	0	0	0
48	Con/Pag/D-FTS/4&8	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS/4&8	ISDN FTS 4	2	4	0	0	0
	Con/Pag/D-FTS/4&8	ISDN FTS 8	3	8	0	0	0
49	Con/Pag/D-FTS/8&4	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS/8&4	ISDN FTS 8	2	8	0	0	0
	Con/Pag/D-FTS/8&4	ISDN FTS 4	3	4	0	0	0
50	Con/Pag/D-2/FTS8	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-2/FTS8	ISDN FTS 8	2	8	0	0	0
	Con/Pag/D-2/FTS8	ISDN FTS 8	3	8	0	0	0
51	Con/Pag/D-2/FTS8m	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-2/FTS8m	ISDN FTS 8	2	8	1	0	0
	Con/Pag/D-2/FTS8m	ISDN FTS 8	3	8	0	0	0
52	Con/Pag/D-2/FTS8lm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-2/FTS8lm	ISDN FTS 8	2	8	1	0	1
	Con/Pag/D-2/FTS8lm	ISDN FTS 8	3	8	0	0	0
53	Con/Pag/D-PCD-FTS8	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-PCD-FTS8	60 BUTTON PCD	2	0	0	0	0
	Con/Pag/D-PCD-FTS8	ISDN FTS 8	3	8	0	0	0
54	Con/Pag/D-Pg-FTS8	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-Pg-FTS8	EXTERN PAGE MOD	2	0	0	0	0
	Con/Pag/D-Pg-FTS8	ISDN FTS 8	3	8	0	0	0
55	Con/Pag/D-2/Pg-FTS8	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-2/Pg-FTS8	EXTERN PAGE MOD	2	0	0	0	0
	Con/Pag/D-2/Pg-FTS8	EXTERN PAGE MOD	3	0	0	0	0
	Con/Pag/D-2/Pg-FTS8	ISDN FTS 8	4	8	0	0	0
56	R-Con/Pag/D-FTS8/3hlm	ISDN CON PAGE	1	2	0	0	0
	R-Con/Pag/D-FTS8/3hlm	ISDN FTS 8	2	8	1	3	1
57	Con/Pag/D-FTS8/3hm-HF/I	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/3hm-HF/I	ISDN FTS 8	2	8	1	3	0
	Con/Pag/D-FTS8/3hm-HF/I	ISDN HANDS- FREE	3	0	0	0	1

	A (Continued)	B	C	D	E	F	G
58	Con/Pag/D-FTS8/3hm-H F/S	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/3hm-H F/S	ISDN FTS 8	2	8	1	3	0
	Con/Pag/D-FTS8/3hm-H F/S	ISDN HANDS- FREE	3	0	0	0	0
59	Con/Pag/D-FTS8/3hm-H F/IS	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-FTS8/3hm-H F/IS	ISDN FTS 8	2	8	1	3	0
	Con/Pag/D-FTS8/3hm-H F/IS	ISDN HANDS- FREE	3	0	0	0	1
60	Con/Pag/D-INLN	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-INLN	INLINE MONITOR 8	2	8	0	0	0
61	Con/Pag/D-INLN/2hIm	ISDN CON PAGE	1	2	0	0	0
	Con/Pag/D-INLN/2hIm	INLINE MONITOR 8	2	8	1	2	1

TABLE 5-11 ISDN Keysets

	A	B	C	D	E	F	G
MOD. GROUP ID	MODULE GROUP NAME	MODULE TYPE NAME	MODULE POSITION AT STATION Number 1 to 9	NUMBER OF HANDSET OR SPEAKER SOURCES USED BY MODULE	MIC.	SHARED SPEAKERS (Hoot N Holler) (Set=0; If Not a Speaker)	INTERCOM
	(Use Dialog Box)	(Use Dialog Box)	1 = Left Position	number 0 - 16	(0 or 1)	number 0 - 16	(0 or 1)
11	ISDN ATT 7505	ISDN ATT 7505	1	1	0	0	0
12	ISDN ATT 7506	ISDN ATT 7506	1	1	0	0	0
13	ISDN ATT 7507	ISDN ATT 7507	1	1	0	0	0
14	ISDN ATT 8503	ISDN ATT 8503	1	1	0	0	0
15	ISDN ATT 8510	ISDN ATT 8510	1	1	0	0	0
16	ISDN ATT 8520	ISDN ATT 8520	1	1	0	0	0
17	ISDN ATT 7505/I	ISDN ATT 7505	1	1	0	0	1
18	ISDN ATT 7506/I	ISDN ATT 7506	1	1	0	0	1
19	ISDN ATT 7507/I	ISDN ATT 7507	1	1	0	0	1
20	ISDN ATT 8503/I	ISDN ATT 8503	1	1	0	0	1
21	ISDN ATT 8510/I	ISDN ATT 8510	1	1	0	0	1
22	ISDN ATT 8520/I	ISDN ATT 8520	1	1	0	0	1

BUTTONS Spreadsheet (btn*.wkz)

Index Speed Dialing

In the MX System there is an allocated bin of 20 index speed dials which are numbered from 00 to 19. Below is an example of how these index speed dials should be programmed.

- When programming a speed dial, lead the numeric string with a double quote (“).
- In the Speed Dial string:
  F = Hook Flash.
  D = Dialtone Detect.
  P = Pause (1 second).
- The Button type “LINE+SPEED DIAL” can only be programed to a module button. When accessed, this will pick up the line that you chose for that button, and prompt you for a two-digit index dial code.

TABLE 5-12 Index Speed Dialing

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**NOT USED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
00	INDEX SPEED DIAL	INDEX DIAL	Ext-7000	
01	INDEX SPEED DIAL	INDEX DIAL	MERRLCHI	
02	INDEX SPEED DIAL	INDEX DIAL	JIMBEAM	
03	INDEX SPEED DIAL	HUNT+INDEX DIAL	Fuji	
04	INDEX SPEED DIAL	HUNT+INDEX DIAL	Nat West	
05	INDEX SPEED DIAL	HUNT+INDEX DIAL	City-Bank	
|	|	|	|	
15	INDEX SPEED DIAL	INDEX DIAL	State St	
16	INDEX SPEED DIAL	INDEX DIAL	Shaw-mut	
17	INDEX SPEED DIAL	INDEX DIAL	GNI	
18	INDEX SPEED DIAL	HUNT+INDEX DIAL	SmithNC	
19	INDEX SPEED DIAL	HUNT+INDEX DIAL	326-7034	
2	MODULE BUTTON	LINE+INDEX DIAL	MorgStly	
3	MODULE BUTTON	LINE+INDEX DIAL	GoldMan	
4	MODULE BUTTON	LINE+INDEX DIAL	Spen	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**(Use Dialog Box)**
N/A		N/A	NOT APPLICABLE	“FDP12033267000
N/A		N/A	NOT APPLICABLE	“12033267001
N/A		N/A	NOT APPLICABLE	“12033267002
N/A		N/A	NOT APPLICABLE	“12033267003
N/A		N/A	NOT APPLICABLE	“12033267004
N/A		N/A	NOT APPLICABLE	“12033267025
			|	|
N/A		N/A	NOT APPLICABLE	“12033267030
N/A		N/A	NOT APPLICABLE	“12033267031
N/A		N/A	NOT APPLICABLE	“12033267032
N/A		N/A	NOT APPLICABLE	“12033267033
N/A		N/A	NOT APPLICABLE	“12033267034
2PLNC264120		Morgan Stanley {FX}	LoPriRing Flt.	N/A
2PLNC264121		Goldman {FX}	LoPriRing NoFlt.	N/A
2PLNC264122		spencer {FX}	LoPri Sng Float	N/A

Speed Dialing

In the MX System you can program any of the 600 module buttons to be speed dials. There is a limit of 200 speed dials for analog turrets.

- When programming a speed dial, lead the numeric string with a double quote (“).
- In the Speed Dial string:
  F = Hook Flash.
  D = Dialtone Detect.
  P = Pause (1 second).
- The Button type “LINE+SPEED DIAL” can only be programed to a module button with an incoming action of Lo Pri Ring float or no float.

TABLE 5-13 Speed Dialing

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**UNUSED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
1	MODULE BUTTON	SPEED DIAL	ABCDEFG	
2	MODULE BUTTON	SPEED DIAL	Ext-7000	
50	MODULE BUTTON	HUNT+SPEED DIAL	Fuji	
51	MODULE BUTTON	HUNT+SPEED DIAL	Nat West	
409	MODULE BUTTON	LINE+SPEED DIAL	MorgStly	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**char (40)**
N/A		N/A	NOT APPLICABLE	“12033267025
N/A		N/A	NOT APPLICABLE	“FDP12033267000
N/A		N/A	NOT APPLICABLE	“12033267003
N/A		N/A	NOT APPLICABLE	“12033267004
2PLNC264120		Morgan Stanley {FX}	LoPriRing Flt.	“01144718958895

External Buttons

Note *This feature is only supported on the analog turret.*

- The Tradenet analog turret has four external switch contacts (external buttons) located on the aux connector on the back of the turret. These external buttons can be programed in the system center as button sequences. Although they are very rarely used, they are normally programmed as release, signal or page keys

TABLE 5-14 External Buttons

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**UNUSED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
1	EXTERNAL BUTTON	BUTTON SEQUENCE	Left-Rel	
2	EXTERNAL BUTTON	BUTTON SEQUENCE	RightRel	
3	EXTERNAL BUTTON	BUTTON SEQUENCE	Left Sig	
4	EXTERNAL BUTTON	BUTTON SEQUENCE	PG01	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**(Use Dialog Box)**
N/A		N/A	NOT APPLICABLE	1022
N/A		N/A	NOT APPLICABLE	1029
N/A		N/A	NOT APPLICABLE	1023
N/A		N/A	NOT APPLICABLE	1025 1045 1035

Control Buttons

- The displays of both the analog and digital turrets contain 20 floating buttons (two rows of 10). Depending on how a turret is programmed, these floating buttons (floaters) display the incoming ring status of the lines programmed to this turret.
- Any button on the control module (with the exception of button 20) that is a floater, can be reprogrammed as a either a button sequence, internal hotline key or a speaker access key. These reprogrammed keys are also known as *soft* keys.
- If a turret is not connected to a pagination module which is considered to be a stand alone configuration (SAC mode), then only the second row of 10 buttons will be floaters.
- If you are programming an internal hotline key, you must put the Trid to be called in the Primary Source column.
- If you want to program a line key to your control module, you must first program that line to your pagination module, Then, using a button sequence on your control module, point to that pagination module button.
- Below are the examples of all the button types that you can program to a control module. When referring to the examples, use only the incoming action as it is listed. Button 11 is a speaker button for a digital turret. Button 12 is a speaker button for an analog turret.
- Not covered here is the MX Feature key. For information on programming the Feature key, see *Special Buttons for Digital Turrets* on page 2-26.

TABLE 5-15 Control Buttons.

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**UNUSED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
1	CONTROL BUTTON	BUTTON SEQUENCE	Mesg	
2	CONTROL BUTTON	BUTTON SEQUENCE	DND	
3	CONTROL BUTTON	BUTTON SEQUENCE	Pvcy	
4	CONTROL BUTTON	BUTTON SEQUENCE	MorgStly	
|	|	|	|	
16	CONTROL BUTTON	BUTTON SEQUENCE	PG01	
17	CONTROL BUTTON	INTERNAL HOTLINE	INTHOT	
18	CONTROL BUTTON	FLOATING BUTTON	N/A	
11	CONTROL BUTTON	SPEAKER ACCESS	SPKR	
12	CONTROL BUTTON	SPEAKER ACCESS	SPKR	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**(Use Dialog Box)**
			NOT APPLICABLE	1110
			NOT APPLICABLE	1125
			NOT APPLICABLE	1211
			NOT APPLICABLE	“0001
			|	|
			NOT APPLICABLE	1025 1045 1035
107			Lo Pri Noring	
			NOT APPLICABLE	
			NOT APPLICABLE	
			Lo Pri Noring	

Module Buttons

- Each analog and digital turret has 600 programmable buttons. On the digital turret, these buttons can be programed with any combination of speed dials, lines keys, button sequences, or specialty keys like internal hotlines. On the analog turret however, there is a maximum of 200 speed dials and 400 line keys. Button sequences and specialty keys can be programmed to the analog turret as well.
- When programming an internal hotline key, you must put the Trid to be called in the Primary Source column. For more information on the Primary Source column refer to Chapter10.
- Below are the examples of all the different button types that you can program to a module button. When referring to the examples other than those of lines, use only the incoming action as it is listed below. Button 11 is a speaker button for a digital turret. Button 12 is a speaker button for a analog turret.
- Not covered here is the MX Feature key. For information on programming the Feature key, see *Special Buttons for Digital Turrets* on page 2-26.

TABLE 5-16 Module Buttons

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**UNUSED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
1	MODULE BUTTON	LINE	877-9393	
2	MODULE BUTTON	LINE AUTO SIGNAL	KempSecu	
3	MODULE BUTTON	LINE+INDEX DIAL	MorgStly	
4	MODULE BUTTON	LINE+SPEED DIAL	888-3312	
28	MODULE BUTTON	SPEED DIAL	JackDanl	
29	MODULE BUTTON	HUNT+SPEED DIAL	WDTurkey	
160	MODULE BUTTON	BUTTON SEQUENCE	PG10	
600	MODULE BUTTON	INTERNAL HOTLINE	INTH	
11	CONTROL BUTTON	SPEAKER ACCESS	SPKR	
12	CONTROL BUTTON	SPEAKER ACCESS	SPKR	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**(Use Dialog Box)**
2PLNC202012		{203} 877-9393	LoPriNoring Flt	
2PLNA264450		Kemper Securities {Equity}	LoPriRing Flt	
2PLNC264120		Morgan Stanley {Equity}	HiPriNoring Flt	
888-3312		Jim Beam Inc.	HiPriRing Flt	“918883312
			NOT APPLICABLE	“918958895
			NOT APPLICABLE	"12033267055
			NOT APPLICABLE	1025 1035 1045
“0107			LoPriNoring Flt	
			NOT APPLICABLE	
			NOT APPLICABLE	

Special Buttons for Digital Turrets

Shown below are all the special buttons for the MX Digital (BRIC) turret.

- A special button can be either a control or module button, except INTA which must be a module button.
- Button 11 is the MX Feature Key.
- When programming an internal hotline key, you must put the Trid to be called in the Primary Source column.
- Button 14 is the Do Not Disturb key (turns ringer on and off).
- Button 16 is the Privacy key. This gives the Trader privacy on a per-call basis.
- When referring to the examples other than those of Lines, use only the incoming action as it is listed below.
- Button 1, Direct Intercom Call (DICM), is programmed just like the internal hot line and rings into INTA.
- Button 2 (ICMT) is used to toggle an intercom call from speaker intercom to handset intercom.
- Button 4 (Line Call) requires that the user know and input, using the TT keypad, the desired line LAC.

TABLE 5-17 Special Buttons for Digital Turrets

A	B	C	D	E
BUTTON NUMBER	**BUTTON CLASS**	**BUTTON TYPE**	**BUTTON PERSONAL LABEL**	**UNUSED**
number 1-600	**(Use Dialog Box)**	**(Use Dialog Box)**	**char (8)**	
11	CONTROL BUTTON	BUTTON SEQUENCE	MXF	
12	CONTROL BUTTON	INTERNAL HOTLINE	INTH	
13	MODULE BUTTON	INTERNAL ANSWER	INTA	
14	CONTROL BUTTON	BUTTON SEQUENCE	DND	
15	CONTROL BUTTON	SPEAKER ACCESS	SPKR	
16	CONTROL BUTTON	BUTTON SEQUENCE	Pvcy	
19	CONTROL BUTTON	BUTTON SEQUENCE	MorgStly	
10	CONTROL BUTTON	LINE	MorgStly	
1	CONTROL BUTTON	INTERNAL HOTLINE	DICM	
2	CONTROL BUTTON	BUTTON SEQUENCE	ICMT	
3	CONTROL BUTTON	BUTTON SEQUENCE	Flip	
4	CONTROL BUTTON	BUTTON SEQUENCE	Mxf2	
5	CONTROL BUTTON	BUTTON SEQUENCE	ICM	
6	CONTROL BUTTON	BUTTON SEQUENCE	Trid5	

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	**LINE BUTTON LINK**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**INCOMING ACTION**	**SPEED DIAL/BUTTON KEY SEQUENCE NUMBER**
char (16)	**char (6)**	**char (32)**	**(Use Dialog Box)**	**(Use Dialog Box)**
			NOT APPLICABLE	1299
“0107			HiPriRing Flt	
			HiPriRing Flt	
			NOT APPLICABLE	1125
			NOT APPLICABLE	
			NOT APPLICABLE	1211
			NOT APPLICABLE	“0010
2PLNC264120		Morgan Stanley {FX}	HiPriRing Flt	
“0107			NOT APPLICABLE	
			NOT APPLICABLE	1212
			NOT APPLICABLE	1304
			NOT APPLICABLE	1202
			NOT APPLICABLE	1205
			NOT APPLICABLE	1203 0005

Note *The programming of ICMT, Flip, and Trid button functions are for your information. These are cost options and must be enabled in order to operate.*

Special Buttons for Analog Turrets

- Shown below are all the special buttons for the MX Analog (Tradenet) turret.
- Button 11 is the MX Feature key. When programing the MX Feature key on the analog turret, not only must the SXF key be programmed on the control module but also there must be a reserve key (Feature) programmed on the pagination module. The SXF key, should then point to the button number where the RSV key (reserve key) can be found. This is accomplished by placing the RSV key button number in the Primary Source column.
- When programming an internal hotline key, you must put the Trid to be called also in the Primary Source column.
- Button 14 is a Dummy Float key.
- Button 15 is a Dummy Float key with a descriptor.
- Button 16 is the Privacy key. This gives the Trader privacy on a per-call basis.
- When referring to the examples other than those of lines, use only the incoming action as it is listed below.
- Button 4 (Line Call) requires that the user know and input, using the TT keypad, the desired line LAC.

TABLE 5-18 Special Buttons for Analog Turrets

F	G	H	I	J
CIRCUIT NUMBER (CIRCUIT ID)	LINE BUTTON LINK	DISTANT END NAME (SYSTEM DESCRIPTOR)	INCOMING ACTION	SPEED DIAL/BUTTON KEY SEQUENCE NUMBER
char (16)	char (6)	char (32)	(Use Dialog Box)	(Use Dialog Box)
100			NOT APPLICABLE	1299
107			HiPriRing Flt	
			HiPriRing Flt	
			NOT APPLICABLE	1119
			NOT APPLICABLE	1119 1119
			NOT APPLICABLE	
			NOT APPLICABLE	1211
			NOT APPLICABLE	“0099
2PLNC264120		Morgan Stanley {FX}	HiPriRing Flt	
			NOT APPLICABLE	
“0107			NOT APPLICABLE	
			NOT APPLICABLE	1212
			NOT APPLICABLE	1304
			NOT APPLICABLE	1202
			NOT APPLICABLE	1205

LINE AND WIRE TABLE INFORMATION

US Line Types

Below are listed the line group/wire group combinations that are supported in the MX database for the US.

TABLE 5-19 US Line Types.

				Valid Line Group / Wire Group Combinations (US)
Lines Table	**Wires Table**			
H	**B**			
LINE GROUP NAME	**WIRE GROUP NAME**	**Card Type**	**Line Types**	**Description Of Line Usage**
(Use Dialog Box)	**(Use Dialog Box)**			
PRIVATE	T1	DLIP / dLT1	MRD	Manual ringdown line. Can be configured as auto signalling or manual signalling where the calling party must send the ringing signal by pressing signal button.
AUTORINGDOWN	T1	DLIP / dLT1	PLAR	Private line automatic ringdown. Private line type which always sends ringing to the distant end whenever the line is seized.
DIALTONE	T1	DLIP / dLT1	FXS	Dial tone or dial pulse trunk. Connection is between CO (FXO) and subscriber (FXS). FXO supplies dialtone and performs as a CO.
DIALPULSE	T1	DLIP / dLT1	FXS	Dial tone or dial pulse trunk. Connection is between CO (FXO) and subscriber (FXS). FXO supplies dialtone and performs as a CO.
PLARRINGBACK	T1	DLIP / dLT1	PLAR	Same as normal PLAR however, when far end signals near end, near end replies with audible ringing tone.
DIG PRIV WO SIG	T1	DLIP / dLT1	DSO clear	Private with no signalling. DSO clear channel type which monitors only the receive channel. Ex: broadcast function only. There is no signalling. Discard receive signalling bits. Some requirements include transmitting clear channel with no robbed bit. or robbed bit a constant 0 or constant 1.
DIALPULSE	ANALOG DIALTONE	ALIP / aLIC	2 wire	Two wire common battery line. Dial Pulse type signalling
DIALTONE	ANALOG DIALTONE	ALIP / aLIC	2 wire	Two wire common battery line. Dial Tone type signalling
DIALTONE	ANALOG DIALTONE	ALIP / aLIC	2 wire	Two wire Common Battery line. AUTORINGDOWN. When near end goes off hoot C.O. signals Far end.
PRIVATE	ANALOG PRIVATE	ALIP / pLIC	2 wire	Two wire Dry line. Private circuit between two points. Signalling or Ring Gen sent from near end.
PRIVATE	4 WIRE	ALIP / FLIC	4 wire	Four Wire Hoot circuit. No signalling.
PRIVATE	S2-PVT-US	XT20 / S2PC	Interface	For connecting to Series II private line cards. “Dry Pair”
DIALTONE	S2-PUB-US	XT2P / S2DC	Interface	For connecting to Series II Dial Tone line cards. “Wet Pair”
PRIVATE	MOD. UNIVERSAL	XT20 / S2PC	Interface	For connecting to Series II private line with hold option cards. “Dry Pair”

UK Line Types

Below are listed the line group/wire group combinations that are supported in the MX database for the UK.

TABLE 5-20 UK Line Types

Valid Line Group / Wire Group Combinations (UK)				
Lines Table	**Wires Table**			
H	**B**			
LINE GROUP NAME	**WIRE GROUP NAME**	**Card Type**	**Line Types**	**Description Of Line Usage**
(Use Dialog Box)	**(Use Dialog Box)**			
PRIVATE	E1	CASP / dCAS	MRD	Manual ringdown line. Can be configured as auto signalling or manual signalling where the calling party must send the ringing signal by pressing signal button.
AUTORINGDOWN	E1	CASP / dCAS	PLAR	Private line automatic ringdown. Private line type which always sends ringing to the distant end whenever the line is seized.
DIALTONE	E1	CASP / dCAS	FXS	Dial tone or dial pulse trunk. Connection is between CO (FXO) and subscriber (FXS). FXO supplies dialtone and performs as a CO.
DIALPULSE	E1	DLIP / dLT1	FXS	Dial tone or dial pulse trunk. Connection is between CO (FXO) and subscriber (FXS). FXO supplies dialtone and performs as a CO.
DIG PRIV WO SIG	E1	CASP / dCAS	FXS	Same as normal PLAR however, when far end signals near end, near end replies with audible ringing tone.
PLARRINGBACK	E1	CASP / dCAS	PLAR	Private with no signalling. DSO clear channel type which monitors only the receive channel. Ex: broadcast function only. There is no signalling. Discard receive signalling bits. Some requirements include transmitting clear channel with no robbed bit. or robbed bit a constant 0 or constant 1.
DIALPULSE	ANALOG DIALTONE	ALIP / aLIC	Figure 1	Two wire common battery line. Dial pulse type signalling
DIALTONE	ANALOG DIALTONE	ALIP / aLIC	Figure1	Two wire common battery line. Dial tone type signalling
DIALTONE	ANALOG DIALTONE	ALIP / aLIC	Figure1	Two wire common battery line. Autoringdown. When near end goes off hook, CO signals far end.
DIALTONE	ANALOG DIALTONE	ALIP / aLIC	Figure1	PSTN Two wire common battery line.
PRIVATE	ANALOG PRIVATE	ALIP / pLIC	Figure2	Two wire dry line. Private circuit between two points. Signalling or Ring Gen sent from near end. (Gen/Gen)
PRIVATE	4 WIRE	ALIP / FLIC		Four wire hoot circuit. No signalling.
DIALTONE	S2-PSTN-25111452	XT2P / S2DC		For connecting to SII PSTN line cards
DIALTONE	S2-DCSG-25111096	XT2P / S2DC		For connecting to SII Figure 6 line cards (DC signaling)
PRIVATE	S2-AUTO-25111488	XT20 / S2PC		For connecting to SII ARD line card

Line/Wire T1 Circuits

TABLE 5-21 Line/Wire T1 Circuits

Lines Table							
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	**char (35)**	**char (8)**	**(Y)**	**char (32)**	**char (16)**	**number 1 - 30**	**(Use Dialog Box)**
PLNA1000		CityBank		City Bank {Fixed}	CCID - 0001	1	PRIVATE
PLNA3000		Merch		Merchants Bank {Equity}	CCID - 0001	2	PRIVATE
PLNA0900		MorgStly		Morgan Stanley {FX}	CCID - 0001	3	AUTORINGDOWN
PLNA1234		KempSec		Kemper Securities {FX}	CCID - 0001	4	AUTORINGDOWN
PLNA5678		Watt1		1-800-326-7000	CCID - 0001	5	DIALTONE
PLNA2345		Watt2		1-800-326-7001	CCID - 0001	6	DIALTPULSE
PLNA9875		Equity	Y	Hoot Equity	CCID - 0001	7	DIG PRIV WO SIG
PLNA3647		FX	Y	Hoot Foreign Exchange	CCID - 0001	8	DIG PRIV WO SIG
PLNA2233		NewYork		New York Office	CCID - 0001	9	PLARRINGBACK
PLNA9128		Chicago		Chicago Office	CCID - 0001	10	PLARRINGBACK
SP T-1 CH11		SprT1-11		Spare	CCID - 0001	11	DIALTONE
SP T-1 CH12		SprT1-12		Spare	CCID - 0001	12	DIALTONE
SP T-1 CH13		SprT1-13		Spare	CCID - 0001	13	DIALTONE
SP T-1 CH14		SprT1-14		Spare	CCID - 0001	14	DIALTONE
SP T-1 CH15		SprT1-15		Spare	CCID - 0001	15	DIALTONE
SP T-1 CH16		SprT1-16		Spare	CCID - 0001	16	DIALTONE
SP T-1 CH17		SprT1-17		Spare	CCID - 0001	17	DIALTONE
SP T-1 CH18		SprT1-18		Spare	CCID - 0001	18	DIALTONE
SP T-1 CH19		SprT1-19		Spare	CCID - 0001	19	DIALTONE
SP T-1 CH20		SprT1-20		Spare	CCID - 0001	20	DIALTONE
SP T-1 CH21		SprT1-21		Spare	CCID - 0001	21	DIALTONE
SP T-1 CH22		SprT1-22		Spare	CCID - 0001	22	DIALTONE
SP T-1 CH23		SprT1-23		Spare	CCID - 0001	23	DIALTONE
SP T-1 CH24		SprT1-24		Spare	CCID - 0001	24	DIALTONE

Wires	Table
A	**B**
LINE/WIRE LINK (CABLE CIRCUIT ID)	**WIRE GROUP NAME**
char (16)	**(Use Dialog Box)**
CCID - 0001	T1

Line/Wire E1 Circuits

TABLE 5-22 Line/Wire E1 Circuits

Lines Table							
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
CIRCUIT NUMBER (CIRCUIT ID)	**CIRCUIT NAME**	**DEFAULT BUTTON LABEL**	**HOOT POOL MEMBER**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**LINE/WIRE LINK (CABLE CIRCUIT ID)**	**TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.**	**LINE GROUP NAME**
char (16)	**char (35)**	**char (8)**	**(Y)**	**char (32)**	**char (16)**	**number 1 - 30**	**(Use Dialog Box)**
RLCY 123456		NatWest		National Westminister {Fixed}	CCID - 0002	1	PRIVATE
RLCY 654321		StateST		State Street Bank {Equity}	CCID - 0002	2	PRIVATE
RLCY 213456		SmithNC		Smith New Court {FX}	CCID - 0002	3	AUTORINGDOWN
RLCY 909090		GNI		GNI {FX}	CCID - 0002	4	AUTORINGDOWN
326-7000		Watt1		0-800-326-7000	CCID - 0002	5	DIALTONE
326-7001		Watt2		0-800-326-7001	CCID - 0002	6	DIALTONE
C 12345678		FI	Y	Hoot Fixed Income	CCID - 0002	7	DIG PRIV WO SIG
C 98675432		Bank	Y	Hoot Bankers	CCID - 0002	8	DIG PRIV WO SIG
C 87654321		RBS		Royal Bank of Scotland	CCID - 0002	9	PLARRINGBACK
C 89624356		NewYork		New York	CCID - 0002	10	PLARRINGBACK
SP cs-1 CH11		SpCs1-11		Spare	CCID - 0002	11	DIALTONE
SP cs-1 CH12		SpCs1-12		Spare	CCID - 0002	12	DIALTONE
SP cs-1 CH13		SpCs1-13		Spare	CCID - 0002	13	DIALTONE
SP cs-1 CH14		SpCs1-14		Spare	CCID - 0002	14	DIALTONE
SP cs-1 CH15		SpCs1-15		Spare	CCID - 0002	15	DIALTONE
SP cs-1 CH16		SpCs1-16		Spare	CCID - 0002	16	DIALTONE
SP cs-1 CH17		SpCs1-17		Spare	CCID - 0002	17	DIALTONE
SP cs-1 CH18		SpCs1-18		Spare	CCID - 0002	18	DIALTONE
SP cs-1 CH19		SpCs1-19		Spare	CCID - 0002	19	DIALTONE
SP cs-1 CH20		SpCs1-20		Spare	CCID - 0002	20	DIALTONE
SP cs-1 CH21		SpCs1-21		Spare	CCID - 0002	21	DIALTONE
SP cs-1 CH22		SpCs1-22		Spare	CCID - 0002	22	DIALTONE
SP cs-1 CH23		SpCs1-23		Spare	CCID - 0002	23	DIALTONE
SP cs-1 CH24		SpCs1-24		Spare	CCID - 0002	24	DIALTONE
SP cs-1 CH25		SpCs1-25		Spare	CCID - 0002	25	DIALTONE
SP cs-1 CH26		SpCs1-26		Spare	CCID - 0002	26	DIALTONE
SP cs-1 CH27		SpCs1-27		Spare	CCID - 0002	27	DIALTONE
SP cs-1 CH28		SpCs1-28		Spare	CCID - 0002	28	DIALTONE
SP cs-1 CH29		SpCs1-29		Spare	CCID - 0002	29	DIALTONE
SP cs-1 CH30		SpCs1-30		Spare	CCID - 0002	30	DIALTONE

Wires	Table
A	B
LINE/WIRE LINK (CABLE CIRCUIT ID)	WIRE GROUP NAME
char (16)	(Use Dialog Box)
CCID - 0002	E1

Line/Wire Common Battery Line Circuits

TABLE 5-23 Line/Wire Common Battery Line Circuits

Lines Table							
A	B	C	D	E	F	G	H
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	char (35)	char (8)	(Y)	char (32)	char (16)	number 1 - 30	(Use Dialog Box)
375-3099		EXT-3099		{203} 375-3099	CCID - 0003	1	DIALPULSE
375-3100		EXT-3100		{203} 375-3100	CCID - 0004	1	DIALPULSE
375-3001		EXT-3001		{203} 375-3001	CCID - 0005	1	DIALPULSE
1PLNC69148		Lehm		Lehman Bros. {FX}	CCID - 0006	1	DIALTONE
1PLNC003256		Bear		Bear Stearns {FX}	CCID - 0007	1	DIALTONE
1PLNC069141		ALEX		Alex Brown {Fixed}	CCID - 0008	1	DIALTONE
Spare DT - 0001		Equity		Spare	CCID - 0009	1	DIALTONE
Spare DT - 0002		FX		Spare	CCID - 0010	1	DIALTONE
Spare DT - 0003		NewYork		Spare	CCID - 0011	1	DIALTONE
Spare DT - 0004		Chicago		Spare	CCID - 0012	1	DIALTONE

Wires	Table
A	B
LINE/WIRE LINK (CABLE CIRCUIT ID)	WIRE GROUP NAME
char (16)	(Use Dialog Box)
CCID - 0003	ANALOG DIALTONE
CCID - 0004	ANALOG DIALTONE
CCID - 0005	ANALOG DIALTONE
CCID - 0006	ANALOG DIALTONE
CCID - 0007	ANALOG DIALTONE
CCID - 0008	ANALOG DIALTONE
CCID - 0009	ANALOG DIALTONE
CCID - 0010	ANALOG DIALTONE
CCID - 0011	ANALOG DIALTONE
CCID - 0012	ANALOG DIALTONE

Line/Wire Dry Line (Two Wire) Circuits

TABLE 5-24 Line/Wire Dry Line (Two Wire) Circuits

Lines Table							
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	char (35)	char (8)	(Y)	char (32)	char (16)	number 1 - 30	(Use Dialog Box)
2PLNC110532		PAIN		Paine Weber {Fixed}	CCID - 0013	1	PRIVATE
2PLNC592128		PRUB		Pru Bache {Fixed}	CCID - 0014	1	PRIVATE
PLLC594101		SANB		Sanford Bern {Fixed}	CCID - 0015	1	PRIVATE
INTERCOM-A		Intercom	Y	Intercom	CCID - 0016	1	PRIVATE
Spare PV - 0001		SprT1-16		Spare	CCID - 0017	1	PRIVATE
Spare PV - 0002		SprT1-17		Spare	CCID - 0018	1	PRIVATE
Spare PV - 0003		SprT1-18		Spare	CCID - 0019	1	PRIVATE
Spare PV - 0004		SprT1-19		Spare	CCID - 0020	1	PRIVATE
Spare PV - 0005		SprT1-20		Spare	CCID - 0021	1	PRIVATE
Spare PV - 0006		SprT1-21		Spare	CCID - 0022	1	PRIVATE

Wires	Table
A	**B**
LINE/WIRE LINK (CABLE CIRCUIT ID)	**WIRE GROUP NAME**
char (16)	**(Use Dialog Box)**
CCID - 0013	ANALOG PRIVATE
CCID - 0014	ANALOG PRIVATE
CCID - 0015	ANALOG PRIVATE
CCID - 0016	ANALOG PRIVATE
CCID - 0017	ANALOG PRIVATE
CCID - 0018	ANALOG PRIVATE
CCID - 0019	ANALOG PRIVATE
CCID - 0020	ANALOG PRIVATE
CCID - 0021	ANALOG PRIVATE
CCID - 0022	ANALOG PRIVATE

Line/Wire Four Wire Private (Hoot) Circuit

TABLE 5-25 Line/Wire Four Wire Private (Hoot) Circuits

Lines Table							
A	B	C	D	E	F	G	H
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	char (35)	char (8)	(Y)	char (32)	char (16)	number 1 - 30	(Use Dialog Box)
2PLNC0001		Equity	Y	Equity Hoot line	CCID - 0023	1	PRIVATE
2PLNC0002		Fixed	Y	Fixed Income Hoot Line	CCID - 0024	1	PRIVATE
2PLNC0003		FX	Y	Foreign Exchange hoot Line	CCID - 0025	1	PRIVATE
2PLNC0004		New York	Y	New York Office	CCID - 0026	1	PRIVATE
2PLNC0005		Chicago	Y	Chicago Office	CCID - 0027	1	PRIVATE

Wires	Table
A	B
LINE/WIRE LINK (CABLE CIRCUIT ID)	WIRE GROUP NAME
char (16)	(Use Dialog Box)
CCID - 0023	4 WIRE
CCID - 0024	4 WIRE
CCID - 0025	4 WIRE
CCID - 0026	4 WIRE
CCID - 0027	4 WIRE

Line/Wire Series II Interworking (Public) - Circuits (US Only)

TABLE 5-26 Line/Wire Series II Interworking (Public) - Circuits (US Only)

Lines Table							
A	B	C	D	E	F	G	H
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	char (35)	char (8)	(Y)	char (32)	char (16)	number 1 - 30	(Use Dialog Box)
326-8000		EXT-8000		{203} 326-8000	CCID - 0028	1	DIALTONE
326-8001		EXT-8001		{203} 326-8001	CCID - 0029	1	DIALTONE
326-8002		EXT-8002		{203} 326-8002	CCID - 0030	1	DIALTONE
326-8003		EXT-8003		{203} 326-8003	CCID - 0031	1	DIALTONE
326-8004		EXT-8004		{203} 326-8004	CCID - 0032	1	DIALTONE
326-8005		EXT-8005		{203} 326-8005	CCID - 0033	1	DIALTONE
Spare S2 - 0001		S201		Spare	CCID - 0034	1	DIALTONE
Spare S2 - 0002		S202		Spare	CCID - 0035	1	DIALTONE
Spare S2 - 0003		S203		Spare	CCID - 0036	1	DIALTONE
Spare S2 - 0004		S204		Spare	CCID - 0037	1	DIALTONE

Wires Table	
A	B
LINE/WIRE LINK (CABLE CIRCUIT ID)	WIRE GROUP NAME
char (16)	(Use Dialog Box)
CCID - 0028	S2-PUB-US
CCID - 0029	S2-PUB-US
CCID - 0030	S2-PUB-US
CCID - 0031	S2-PUB-US
CCID - 0032	S2-PUB-US
CCID - 0033	S2-PUB-US
CCID - 0034	S2-PUB-US
CCID - 0035	S2-PUB-US
CCID - 0036	S2-PUB-US
CCID - 0037	S2-PUB-US

Line/Wire Series II Interworking (Public) - Circuits (US Only)

TABLE 5-27 Line/Wire Series II Interworking (Public) - Circuits (US Only)

Lines Table							
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
CIRCUIT NUMBER (CIRCUIT ID)	**CIRCUIT NAME**	**DEFAULT BUTTON LABEL**	**HOOT POOL MEMBER**	**DISTANT END NAME (SYSTEM DESCRIPTOR)**	**LINE/WIRE LINK (CABLE CIRCUIT ID)**	**TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.**	**LINE GROUP NAME**
char (16)	**char (35)**	**char (8)**	**(Y)**	**char (32)**	**char (16)**	**number 1 - 30**	**(Use Dialog Box)**
2PLNC000001		JimBeam		Jim Beam Inc. {Fixed}	CCID - 0038	1	PRIVATE
2PLNC000002		Fosters		Fosters Inc {Fixed}	CCID - 0039	1	PRIVATE
2PLLC000003		JDaniels		J. Daniels Inc. {Fixed}	CCID - 0040	1	PRIVATE
2PLNC000004		ElmCity	Y	Elm City Inc. {Fixed}	CCID - 0041	1	PRIVATE
Spare S2 - 0005		S205		Spare	CCID - 0042	1	PRIVATE
Spare S2 - 0006		S206		Spare	CCID - 0043	1	PRIVATE
Spare S2 - 0007		S207		Spare	CCID - 0044	1	PRIVATE
Spare S2 - 0008		S208		Spare	CCID - 0045	1	PRIVATE
Spare S2 - 0009		S209		Spare	CCID - 0046	1	PRIVATE
Spare S2 - 0010		S210		Spare	CCID - 0047	1	PRIVATE

Wires Table	
A	**B**
LINE/WIRE LINK (CABLE CIRCUIT ID)	**WIRE GROUP NAME**
char (16)	**(Use Dialog Box)**
CCID - 0038	S2-PVT-US
CCID - 0039	S2-PVT-US
CCID - 0040	MOD. UNIVERSAL
CCID - 0041	MOD. UNIVERSAL
CCID - 0042	S2-PVT-US
CCID - 0043	S2-PVT-US
CCID - 0044	S2-PVT-US
CCID - 0045	S2-PVT-US
CCID - 0046	S2-PVT-US
CCID - 0047	S2-PVT-US

Series II Interworking (Public) - Circuits (UK Only))

TABLE 5-28 Series II Interworking (Public) - Circuits (UK Only)

Lines Table							
A	B	C	D	E	F	G	H
CIRCUIT NUMBER (CIRCUIT ID)	CIRCUIT NAME	DEFAULT BUTTON LABEL	HOOT POOL MEMBER	DISTANT END NAME (SYSTEM DESCRIPTOR)	LINE/WIRE LINK (CABLE CIRCUIT ID)	TELCO DIGITAL CHANNEL - USE 1 For Analog Chan.	LINE GROUP NAME
char (16)	char (35)	char (8)	(Y)	char (32)	char (16)	number 1 - 30	(Use Dialog Box)
326-8010		EXT-8010		{0800} 326-8010	CCID - 0048	1	DIALTONE
326-8011		EXT-8011		{0800} 326-8011	CCID - 0048	1	DIALTONE
326-8012		EXT-8012		{0800} 326-8012	CCID - 0050	1	DIALTONE
326-8013		EXT-8013		{0800} 326-8013	CCID - 0051	1	DIALTONE
326-8014		EXT-8014		{0800} 326-8014	CCID - 0052	1	DIALTONE
326-8015		EXT-8015		{0800} 326-8015	CCID - 0053	1	DIALTONE
Spare S2 - 00		S201		Spare	CCID - 0054	1	DIALTONE
Spare S2 - 00		S202		Spare	CCID - 0055	1	DIALTONE
Spare S2 - 00		S203		Spare	CCID - 0056	1	DIALTONE
Spare S2 - 00		S204		Spare	CCID - 0057	1	DIALTONE

Wires Table	
A	B
LINE/WIRE LINK (CABLE CIRCUIT ID)	WIRE GROUP NAME
char (16)	(Use Dialog Box)
CCID - 0048	S2-PSTN-25111452
CCID - 0048	S2-PSTN-25111452
CCID - 0050	S2-PSTN-25111452
CCID - 0051	S2-PSTN-25111452
CCID - 0052	S2-DCSG-25111096
CCID - 0053	S2-DCSG-25111096
CCID - 0054	S2-DCSG-25111096
CCID - 0055	S2-DCSG-25111096
CCID - 0056	S2-DCSG-25111096
CCID - 0057	S2-DCSG-25111096

Chapter 6 CustMan for DOS

INTRODUCTION

It is now possible to run CustMan on the IBM PC, DOS platform. This document describes the installation process, equipment, and software requirements. Since the IBM PC and PC clones are widely available and SPARCstations may not be as plentiful, being able to enter data into the PM sheets on a PC may be beneficial.

Only CustMan PM sheets are available, not the SiteMan order form, CGEN, and merge. You must return to the SPARCstation in order to manufacture the site database. As you will see later, certain useful utilities are also unavailable in the PC version. Verification and cross checking of data are best accomplished on a SPARC.

CUSTMAN FOR DOS

The CustMan software is layered on top of MS Windows (Microsoft Corp.) and Wingz Spreadsheet software (Informix Inc.) The Wingz software must be installed first, then CustMan may be installed.

The CustMan software requires two sets of data:

- the executable software and default parameters
- the country base

Both sets of data are contained on the same disk. You must therefore order the correct country base disk. The country base resides in a separate directory path \CUSTMAN\CTRYBASE\ and has a sub-directory for each country supported by Tradenet MX. The country base has different parameters for each country. A separate manual process must be run to modify or switch the currently active country.

Hardware Configuration

The mandatory minimum hardware required for CustMan is as follows:

1. IBM PC compatible computers
2. Intel 80486 CPU - 25 MHz
3. 80 Megabyte hard disk
4. 4 Megabytes of RAM
5. Super VGA 640 x 480 adapter (.5 Megabyte RAM)
6. 14 inch color monitor
7. 3 1/2 inch disk drive (1.44 Megabyte) - mandatory to transfer files to the SPARCstation to complete the data base manufacturing process.
8. Microsoft mouse
9. I/O (2 com ports, 1 parallel port)
10. Printer -

    EPSON Graphics compatible 9 or 24 pin dot matrix or equivalent. Graphics is mandatory to print button face layout sheets.

The following hardware is recommended for CustMan in lieu of the above:

1. IBM PC compatible computers
2. Intel 80486 CPU -33 MHz
3. 120 Megabyte hard disk
4. 4 Megabytes of RAM
5. Super VGA 800 x 600 adapter (1 Megabyte RAM)
6. 14 inch color monitor (16 inch is better)

7. 3 1/2 inch disk drive (1.44 Megabyte) - mandatory to transfer files to the SPARCstation to complete the data base manufacturing process.
8. 5 1/2 inch disk drive (1.2 Megabyte)
9. Microsoft mouse
10. I/O (2 com ports, 1 parallel port)
11. Printer - HP Laser III.

Software Requirements

The following software must be pre-installed before CustMan can be used:

1. Microsoft DOS Version 5.0 - Microsoft Corp.
2. Microsoft Windows 3.1 - Microsoft Corp.
3. Wingz (For Windows) 1.1 - Informix Corp.
4. Wingz (For Windows) 1.1a upgrade - Informix Corp.

MICROSOFT WINDOWS SETUP

The Wingz program must be run in the Microsoft Windows Enhanced 386 mode. Make sure Windows is set up in this mode or Wingz may abort unexpectedly. You may *not* run other terminate and stay resident (TSR) and network programs that use up the lower 640 K memory area. Doing so will result in unrecoverable Microsoft Windows errors in Wingz and will make it necessary to re-boot the computer.

Mandatory DOS Path

The CustMan software must be installed on the same hard disk drive as Wingz. For example, if you install Wingz on drive **D:** then you must also install CustMan on drive **D:**.

Note *The path is very important!*

• *Install Wingz at the root in its own directory. (for example,* **C: \Wingz** *or* **D:\Wingz***.)*

• *Install CustMan in the required sub-directories specified in the install batch file* **cminstal.bat** *(The Hyperscript code expects to find CustMan in a set of sub-directory paths off of the* **\custman** *directory).*

Install Batch File

The **cminstal.bat** file is located in the root directory on the CustMan distribution floppy disk. The following sub-directories are created under the **\custman** directory:

- **cbasewkz**
- **ctrybase**
- **pmscript**
- **pmdatdic**
- **projmgtv**

cbasewkz - holds the current country base spreadsheets and is defaulted to the USA Country Base.

ctrybase - holds many sub-directories which contain the country base Wingz spreadsheets. These sheets are used to fill the dialog box picking lists and show engineering library parameter data.

pmdcript - holds the executable programs

pmdatdic - holds the extended help (data dictionary) files.

pmjmgtv - is a default customer directory where the software starts running; it is initially empty.

In addition, the **startup.scz** file and **welcome.wkz** files must be in the directory **\custman**. Also, the **startup.scz** file must be in **\wingz** or CustMan will not run.

RUNNING CUSTMAN

Microsoft Windows must be running before start CustMan. Your computer may be configured to automatically launch Microsoft Windows.

1. Start Microsoft Windows
2. Open the Program Manager Group containing Wingz.
   (Look for the inverted triangle).
3. Double-click on the Informix Wingz icon.

OPERATING INSTRUCTIONS

You must create your own customer directories (one per project/customer) as sub-directories of the **\custman** sub-directory (for example, a Bankers Trust customer could have the DOS path name **\custman\bankert**). You must create the directory from the Microsoft DOS level or from the Windows File Manager. If the directory is not in the **\custman** path, the software will not work.

Two files, **startup.scz** and **welcome.wkz** that must exist in the **\custman** directory. In addition, it is *mandatory* that the **startup.scz** file be placed in the **\wingz** directory. The **startup.scz** file in turn starts the PC version of CustMan running when the Wingz icon is double clicked. The **welcome.wkz** sheet shows a startup sheet instead of the normal blank sheet. Wingz must either create a new sheet or reference a sheet by name on startup.

Having no sheet is not an option, according to the technical support people at Informix. Once everything is installed, the only visual indication that the CustMan software is available is a new menu bar painted with the CustMan buttons. This is different from the normal Wingz menu bar, which can be selected by clicking the **Menu** button and clicking “Show Wingz main Menu”. The main Wingz menu selection PM MENU on the WINGZ menu bar allows transfer back to the CustMan menu bar. Click this menu and click the “Project Mgt. Menu” sub-menu. This will paint a new menu bar that has the CustMan software available menu option.

You must create all sheets for a new customer (use the PM Sheets menu) at least one time for lines, stations, traders, groups, etc. There is one sheet for each Trader Group Number. If there is a different face layout required for each Trader ID (TRID) then you must create a separate Trader Group for each Trader.

You must create a button sheet with at least 3 rows (this is a bug) before you can view a sheet as a face layout.

To change to a different set of customer sheets (assuming you have already created the directory on the disk) you must click the Utilities menu and click the Customer Info menu. Then click SELECT which shows a dialog box. Change the name to the DOS directory (customer name) and the Wingz CustMan program now knows where the files are located. This is a kludge but Wingz hyperscript does not allow direct access to DOS file names using a Directory List operation.

The lack of directory file support has another implication. All the “reports” key off the Trader Group spreadsheet. If you put a Trader Group Number in the trader group spreadsheet then the program assumes that there will be a Button File for the Trader Group. If you do not create a Button Sheet(s) for the Trader Group the report programs will complain about a missing sheet. Conversely, if you create a Button Sheet(s) and do not make a corresponding entry for the Trader Group Number in the Trader Group Spreadsheet (not the individual Trader List) then the programs will not find the Button sheets. The button sheets are identified as BTN*.WKZ where * is the Trader Group Number that you inter in the Trader Group spreadsheet.

The order for creating the sheet can be arbitrary but to fill in all the fields in the face layout you should follow this order, create:

1. System spreadsheet
2. Trader Group spreadsheet
3. Billing Group spreadsheet (not mandatory)
4. Module Group Name spreadsheet

5. Station Module Position spreadsheet
6. Station spreadsheet
7. Trader ID spreadsheet
8. Button spreadsheet
9. Line spreadsheet
10. Wire spreadsheet
11. Hunt Group spreadsheet (not mandatory)

Note *Only the Button sheets have multiple copies per customer. All other sheets have just one copy per customer. These sheets can be easily identified. They start with the PM prefix in the DOS file name.*

There is no cross checking of Station or Hunt Group sheet to other sheets. The Hunt Group will be changed to on sheet. The Wire sheet must be cross-connected with the Line sheet. There is a separate Wire sheet for Tradenet MX since multiplexed lines will now have to be assigned by project management.

The Line sheet can be filled in manually or automatically. The automatic operation assumes that you have already created the Button sheets and have made a corresponding Trader Group entry in the Trader Group sheet. The Utilities menu Add Buttons to Lines menu, permits copying of line id's from the Button sheets to the Line sheet.

The face layout display is only a "template". We do not save the Face Layout since it is recreated each time from the Button sheet. The button sheet is the source of the data for the Face Layout. When you close the Face layout simply discard the sheet or if you want to keep a copy save it from the Wingz File menu as a different file name. The face layout display will also be changed to permanently include the Circuit Number and the Label. The distant End/System description and/or Circuit name will be selectable.

Chapter 7 Import Lotus 1-2-3 Templates

A	B	C	D	E	F
Trader Information Worksheet					
TRADER PASSWORD	TRADER NAME	TRADER GROUP NAME	BILLING GROUP NAME	DESK LOCATION	AUTO HUNT GROUP NUMBER
4 chars	40 chars	16 chars	16 chars	16 chars	number 1 - 200

INTRODUCTION

The Lotus import utility was created to provide a method to reduce redundant data entry when building a customer database. The Lotus Import utility populates a large portion of the CustMan sheets with the data from customer templates. As a result, the time required to build a database should be reduced.

Many of our Tradenet customers may be familiar with spreadsheet programs, such as Lotus, which is used on a DOS computer (IBM PC or compatible). DOS computers are widely used and are commonly available. In the past, customer data needed to be written out by hand and entered on the PM sheets; or taken from spreadsheets compiled by our customers and re-entered on the PM sheets. The Lotus import utility provides a way for customers to record the data in Lotus spreadsheets which then can be transferred to the PM sheets.

Customer Data

The Lotus templates which may be filled in by the customer are:

1. Lines
2. Buttons
3. Trader Groups
4. Wires
5. Hunt Groups
6. Billing Groups

As a result, the customer should return a floppy disk to IPC project management rather than a paper printout. Since the customer spreadsheet templates will be DOS formatted, the SiteMan tool has been enhanced to support an option to copy the customer's spreadsheets onto the hard disk of the DataMan computer.

Lotus File Names

In addition, a new option has been added to the CustMan program to support the data import of the Lotus templates into the CustMan Wingz spreadsheets. The file names of the Lotus templates are:

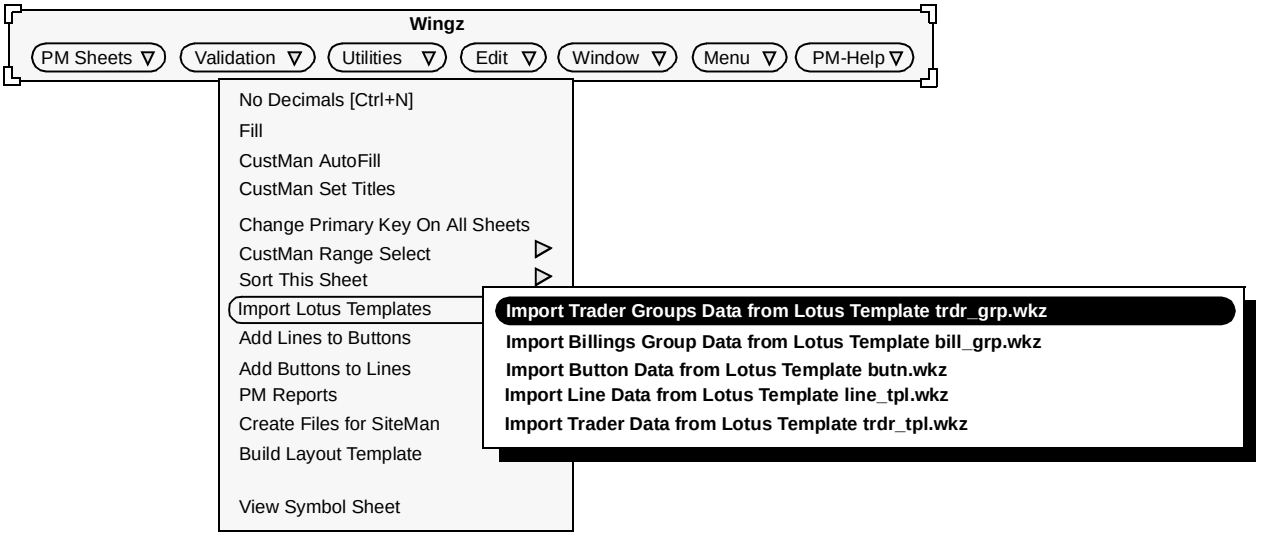
- bill_grp.wk1
- butnXX.wk1
- hunt_tpl.wk1
- line_tpl.wk1
- trdr_grp.wk1
- trdr_tpl.wk1

Note *Currently, CustMan supports the importation of only Lotus templates. A future release will support Excel and other spreadsheets.*

DESCRIPTION

The **Copy Tradenet MX Lotus Formatted Templates** menu was added to the **CustMan** menu on the SiteMan tool. This option copies the DOS-created, customer-updated spreadsheet templates from a DOS floppy diskette to the hard disk of the SPARC workstation, where they are stored in the **projmgtv** directory.

The **Import Lotus Templates** menu was added to the **Utilities** menu in CustMan. The **Import Lotus Templates** menu has a submenu which contains the following:



The menu options stated above are self explanatory. That is, the named customer template populates the corresponding CustMan Wingz spreadsheet.

Warning! ***The project manager building the database* must *create a blank sheets for every option listed under the* PM Sheets *menu. These blank sheets are need before the Lotus Utilities are executed. For obvious reason, the process of importing data requires a container (spreadsheet) from which the data is taken and a container (spreadsheet) into which the data is placed.***

Here is how to use the templates to your maximum advantage.

1. Provide the customer with a copy of the Lotus templates on a 3 1/2 inch DOS floppy diskette. Ask the customer to input the required database information on each of the templates.

Note *The Button templates must comply with the naming convention. That is, the number on the button template should correspond with the trader group number in the trader group template (trdr_grp.wk1).*

For example: On the button sheet **butnXX.wk1**, *the XX should correspond to the trader group number in the* **trdr_grp.wk1** *template. Create as many* **butnXX.wk1** *spreadsheets as there are trader groups (i.e. the button sheets will be numbered* **butn1.wk1** *to* **butn9.wk1**, *if there are nine trader groups specified on the* **trdr_grp.wk1** *spreadsheet).*

---

2. After the populated templates are obtained from the customer, create a SiteMan project for the customer.

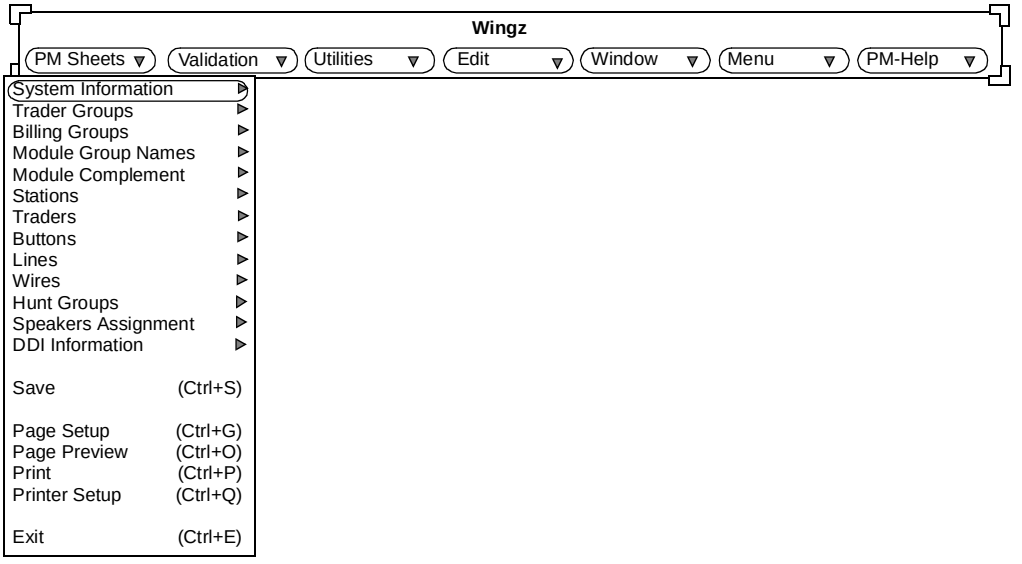
3. Select the option **Copy Tradenet MX Lotus Formatted Templates** to load the templates onto the hard disk of the SPARCstation. If the templates are being processed on a PC, copy the templates into the **projmgtv** directory.

   An example of the command is shown below. However the target drive may be different and not c: (refer to the PC's user manual - copy function for details).

   ```
   copy a:*.wk1 c:\projmgtv
   ```

4. Select the option to run the CustMan Wingz tool.

5. Select the menu **PM Sheets**. Create a system spreadsheet and a blank spreadsheet for each of the remaining sheets displayed on this menu.



6. Select the option **Utilities**, then its submenu option **Import Lotus Templates**.

7. The Import Lotus Templates option has a submenu with five additional options. Create a blank corresponding CustMan sheet if you have not already done so. Execute each of the five options sequentially.

Note *Before executing step 8 please make sure that you have selected the Primary Source Column that corresponds to the information key on the line-template.*

---

8. Open each button sheet and execute the option **Add Lines to Buttons** from the **Utilities** menu. This option populates the button sheets with button data.

9. Open each PM sheet and fill in the blank columns using the associated dialog box.

Warning! ***Steps 1–9 will populate all of the CustMan sheets. You should now perform error checking on all sheets. Do not assume that the customer data has been entered correctly by the customer. The validation cross checks and the merge process are accomplished using the regular features available in the CustMan tool. The Import Lotus Templates tool will not populate columns that require entry by dialog box. You must enter this and any other missing column data before attempting a merge.***

Note *The Lotus templates must have all the data for a given sheet before you use the import utility. A partial transfer can not be added to by importing the missing information. Only complete templates can be imported.*

THE LOTUS TEMPLATES

The following are the layouts for the Lotus 1-2-3 templates. While they contain column headings similar to the CustMan PM sheets, they may not be in the same column order.

Trader Group Template (trdr_tpl.wk1)

A	B	C
Trader Group Worksheet		**IPC Information Systems**
TRADER GROUP NAME	**TRADER GROUP DESCRIPTION**	**TRADER BUTTON NUMBER**
16 chars	**40 chars**	**number (4)**

Billing Group Template (bill_grp.wk1)

A	B
Billing Group Worksheet	**IPC Information Systems**
BILLING GROUP NAME	**BILLING GROUP DESCRIPTION**
16 chars	**40 chars**

Note *The maximum number of groups is 16. In the UK, with the use of an external call logger, the maximum number of groups is 64.*

Trader Template

A	B	C	D	E	F
Trader Information Worksheet					
TRADER PASSWORD	**TRADER NAME**	**TRADER GROUP NAME**	**BILLING GROUP NAME**	**DESK LOCATION**	**AUTO HUNT GROUP NUMBER**
4 chars	**40 chars**	**16 chars**	**16 chars**	**16 chars**	**number 1 - 200**

Note *Columns C and D are not imported; they must to be entered after importing.*

G	H	I
TRADER LABEL	TRADER TITLE 1	TRADER TITLE 2

Line Information Template

A	B	C	D	E	F
Line Information Worksheet					
CIRCUIT NUMBER (CIRCUIT ID)	**LINE LINK**	**DEFAULT BUTTON LABEL**	**DISTANT END NAME**	**LIne Type (see next column for examples)**	**Example Line Types.**
16 chars	**l1,l2…**	**8 chars**	**32 chars**		

G	H	I	J	K
SIG TYPE (see next column for examples)	**Example Signalling Types**	**TELCO SPAN**	**TELCO CHANNEL**	**DEMARC LOCATION**
		16 chars	**16 chars**	**16 chars**

Trader Button Template (butnXX.wk1)

A	B	C
Trader Button Worksheet	**IPC Information Systems**	
BUTTON NUMBER	**LINE LINK/CIRCUIT ID**	
(1-600)	**16 CHARS**	

Chapter 8 Building a Database - Quick Reference

INTRODUCTION

This appendix provides a quick step-by-step guide through the process of creating a database. For detailed procedures, see *Chapter 3 Creating a Database* on page 3-1.

PROCEDURE

1. Gather all necessary site information including the AutoQuote printout from Sales.
2. Power up the SPARCstation.
3. Log in as **`root`**.
4. At the root prompt, type **`cd /usr/export/home/syscen`**; press ENTER.
5. At the root prompt type **`sw_openl`**; press ENTER. Then press ENTER again to change the window manager from Motif to Open Look.
6. At the root prompt, type **exit and press** ENTER.
7. Log in as **`install`.**
8. Quit the **System Installation Shelltool** window and the reduce the clock to an icon**.**
9. Open a command tool and then enlarge the window**.**
10. At the **syscen:/usr/sx/db>** prompt type **`cd /usr/sx/db/dataman/site_man`**; press ENTER.
11. At the **syscen:/usr/sx/db/dataman/site_man>** prompt type **`dataman`**; press ENTER.
12. At the opening menu press ENTER again.
13. Type **1** for the **DataMan For a Standard Tradenet MX System** option; press ENTER.
14. Type **2** for the **Create a Project** option; press ENTER.
15. Type a Project name; press ENTER.
16. At the **Database Manufacturing (DataMan)** menu, press ENTER for option 1, **Site Manufacturing Menu**.
17. At the **Site Manufacturing (SiteMan)** menu, press ENTER for option 1, **Configuration Entry Form**.
18. Press ENTER at the end of the CGEN Options report. You see the first screen of the configuration order form.
19. Type **A** to add new information into the form.20.
20. Using the AutoQuote printout from Sales, enter all necessary information into the configuration order form. Double check your work.
21. When all the data has been entered, type **S** to add the new data.
22. Type **E** to exit, then press ENTER.
23. At the **Site Manufacturing (SiteMan)** menu, type **2** to select option 2, **Generate Configuration from Entry Form and Load Country Base**; press ENTER.
24. Type the project name; press ENTER.
25. After the configuration for your project has been generated, press ENTER.
26. At the **Site Manufacturing (SiteMan)** menu, type **3** for the **CustMan** menu (used to launch Spreadsheets via Wingz) option; press ENTER.
27. At the **Customer Manufacturing (CustMan)** menu, press ENTER for option 1, **CustMan View - Spreadsheet interface**.
28. Type **Y** to launch the CustMan spreadsheet application; press ENTER.

29. Press ENTER and close the command tool to an icon.
30. Quit the **Project Management View** welcome window.
31. Open the following spreadsheets in the order they are listed below. Fill out all necessary columns in each spreadsheet, then quit and save the changes.

    System Information

    Trader Groups

    Billing Groups

    Module Group Names

    Module Complement

    Stations

    Traders
32. Open **Lines** in the PM sheets. Then quit the window.
33. Open **Button** in the PM sheets. Select the trader group number you wish to open, then click the ENTER button.
34. Using the Customer turret face-layout forms, complete the **Button** sheet for this trader group. In column G **Line Button Link**, enter a reference letter for the line type. If you have digital lines, also put in the channel number.This will be used to sort the line types later. Quit and save the changes.
35. Repeat steps 33 and 34 until all trader group button sheets are built.

Note *If a trader group has all or most of the same lines as another trader group, use the* **Copy Buttons For Another Trader Group** *option to speed up entering the buttons, then edit the button sheet.*

---

36. Next do Utilities/Add Buttons to Lines, then select **Transfer All Buttons to Lines**. Click the ENTER button in the **ENTER BUTTONS SHEET INFO** dialog box. (The primary source default column is Circuit Number).
37. You see a message box showing how many lines were added; click the **OK** button.
38. Quit the **Lines** spreadsheet and save the changes.
39. Open **Lines** in the PM Sheets.
40. Sort the **Lines** spreadsheet by column **A.** (Use the appropriate sorting procedure for either less than 2000 lines or more than 2000 lines).
41. To find any duplicate lines that may have been copied, highlight the cells in column **A** that contain data. Click **Validation/Unique Column Check**, then select **Auto Check Sheet Column**. Select the report error color you wish, then click ENTER to check the selected range.
42. Duplicate line entries are highlighted in the specified color. Delete the duplicate entries of each line except for one. Remove the error colors from the sheet when done.
43. Sort the sheet again by doing **Create Range**, select column **B**, then **Ascending Key**. Select column **A**, then **Add Ascending Key**; finally, do **Sort Now.**
44. Add any missing and spare line circuits. Enter any other necessary information in the spreadsheet, and in column **F** enter a unique alphanumeric string (for example, CCID-0001) for each wire in the spreadsheet. When finished, quit and save the changes.

45. Open **Wires and Lines** in the PM Sheets. Do an **Arrange Windows** to get the **Lines** and **Wires** sheets side by side.
46. Copy the following columns from **Lines** to **Wires**:

Lines		Wires
Column F (Line/Wire Link)	to	Column A (Line/Wire Link)
Column B (Line Button Link)	to	Column D (Custom Title 1)
Column I (Custom Title 1 - Demarc)	to	Column C (Demarc Location)

47. Quit the **Lines s**heet window, and then do an **Arrange windows** on **Wire.**
48. Delete all but one entry for any digital line. Enter any other necessary information into **Wires**, then quit and save the changes.
49. Open **Hunt Groups** in the PM Sheets.
50. To create a hunt group, select a column (the default is **Circuit Number**) then click the ENTER button.
51. Quit the **Hunt Groups** sheet when finished.
52. Click **Utilities/Create Files for SiteMan - All Sheets**.
53. Click **OK** to continue.
54. Click **OK** for any messages that appear.
55. Open the command tool that is running DataMan.
56. Type E to go back to the Site Manufacturing (SiteMan) Menu; then type **4** to select the **Merge SiteMan Data with CustMan Data** option; then press ENTER.
57. On the MERGE SITEMAN AND CUSTMAN DATA menu, select **Merge All SiteMan and CustMan Data in One Operation**; press ENTER.
58. Type **Y** to start the merge process.
59. When the merge is complete, scroll back to the beginning of the merge process and check for any errors that are reported. Press ENTER when finished.
60. Press ENTER again.
61. Type **E** to go back to the **Site Manufacturing (SiteMan)** menu, then type **7** for the **Report** menu; press ENTER.
62. On the **SITEMAN REPORT** menu; press ENTER to go to the **SiteMan Translation Error** reports.
63. On the **SITEMAN ERROR REPORT MENU LIST**, do all of the orphan and SQL error report options. Record any errors that may help you during troubleshooting.

Note *NOTE: The Database can not be released until all orphans and SQL errors are fixed.*

64. Type **E** then press ENTER, then press ENTER again to go back to the **SITEMAN REPORT** menu.
65. Type **E** to go back to the **Site Manufacturing (SiteMan)** menu.
66. If changes have to be made in SiteMan, press ENTER to select **Configuration Entry Form**. When the configuration order form is displayed, press ENTER to query, then press **s**. When the data is displayed, type **U** to update the information in the form. Press **s** to save the changes. Rerun CGEN option 2. After the configuration has been regenerated, select option 4 to re-merge the SiteMan data with the CustMan data. When the merge is complete, scroll back again and check for any errors. Run all of the SiteMan Translation Error Reports again.

67. If changes have to be made in CustMan, go to the CustMan menu option 3. Launch the spreadsheet interface (Wingz) if necessary. Make changes in the spreadsheets and save the changes. Next select **Create Files for SiteMan**, then re-merge the SiteMan data with the CustMan data. When the merge is complete, scroll back again and check for any errors. Run all of the SiteMan translation error reports again.
68. After all orphans and SQL errors have been fixed, create trader test group(s) if necessary (steps 69 - 75).
69. Open **Lines** in the PM Sheets.
70. Delete the contents of column **B (Line Button Link).** Then use the CustMan Autofill utility to enter data into rows A1 to Axxx (where xxx is the last row in the sheet). Quit and the save the changes.
71. Open the **Button** sheet for the particular test trader group.
72. Put in the required information into the **Button Number**, **Button Class** and **Button Type** columns.
73. In column **G (Line Button Link)**, use the CustMan Autofill utility to enter data into rows A1 to Axxx (where xxx is the last row in the sheet), then quit and save changes.
74. Under **Utilities**, select **Add Lines to Buttons**. Type the trader group number and select **Line Button Link** as the source column; click ENTER.
75. Click **OK** on the message telling you how many buttons rows were updated. Check the information in the button sheet and fill out any other necessary columns, then quit and save the changes.
76. Before releasing the database, it is necessary to clean-up some of the files. Open **Lines** in the PM sheets. Delete the contents of column **B (Line Button Link)** and column **I (DEMARC)**. Quit and save changes
77. Open **Wires** in the PM Sheets. Delete the contents of column **D (Line Button Link)**. Quit and the save changes.
78. Open **System Information** in the PM Sheets. Delete the contents of columns **L** and **P**. Quit and the save changes.
79. Repeat steps 52 to 67. (Create files for SiteMan, Merge and Error Check).
80. After all orphans and SQL errors have been fixed, go to the **Site Manufacturing (SiteMan)** menu, type **6** to select **Release Final Database and Copy the Database to Diskette**, then press RETURN.

Note *Before the final database release, if you plan to make any changes by going into I-VIEW you must first change the window manager back to MOTIF (See steps 87 to 92).*

Next run DataMan again and select your project, then run the Spreadsheet interface (I-View). When you are finished making changes, follow the steps below to release the final database.

81. Insert a High Density diskette into the drive, type **Y** to continue, then press ENTER.
82. Type **Y** to format the diskette, then press ENTER. Press ENTER again to start formatting the diskette.
83. Press ENTER to continue.
84. When asked to format another diskette, type **N** then press ENTER. Insert the formatted diskette back into the drive and press ENTER. The database is copied to the diskette.
85. Type **N** when asked to make a copy of the database, then press ENTER twice.
86. Label the diskette with the necessary site information and current date.
87. If you are required to run the System Center on the SPARCstation or run I-View, first you must quit all windows and then exit back to the syscen login prompt.
88. At the syscen login log in as *root***.**
89. At the root prompt, type **`cd /usr/export/home/syscen`**; press ENTER.

90. At the root prompt, type **sw_motif and press** ENTER. Then press ENTER again to change the window manager from Open Look to Motif.
91. At the root prompt, type **`exit`**; press ENTER.
92. At the syscen login prompt, log in to the required account.

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