



# **MERLIN MAGIX<sup>®</sup> Integrated System**

System Planning Forms  
Release 3.0 and Earlier

555-730-113  
Issue 1  
May 2003

## Notice

Every effort has been made to ensure that the information in this guide is complete and accurate at the time of printing. Information, however, is subject to change. See Appendix A, "Customer Support Information," in *Feature Reference* for important information.

## Avaya Web Page

The world wide web home page for Avaya is <http://www.avaya.com>.

## Preventing Toll Fraud

Toll Fraud is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or working on your company's behalf). Be aware that there is a risk of toll fraud associated with your system and that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

## Avaya Fraud Intervention

If you suspect that you are being victimized by toll fraud and you need technical assistance or support, call Technical Service Center's Toll Fraud Intervention Hotline at 800 643-2353.

## Providing Telecommunications Security

Telecommunications security of voice, data, and/or video communications is the prevention of any type of intrusion to, that is, either unauthorized or malicious access to or use of, your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or working on your company's behalf. Whereas, a "malicious party" is anyone, including someone who may be otherwise authorized, who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time multiplexed and/or circuit-based) or asynchronous (character-, message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll-facility access)
- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized or malicious intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company, including, but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs.

### **Your Responsibility for Your Company's Telecommunications Security**

The final responsibility for securing both this system and its networked equipment rests with you - an Avaya customer's system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources, including, but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure your:

- Avaya provided telecommunications system and their interfaces
- Avaya provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products

### **Federal Communications Commission Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense. For further FCC information, see Appendix A, "Customer Support Information," in Feature Reference.

**Part 68: Network Registration Number.** This equipment is registered with the FCC in accordance with Part 68 of the FCC Rules. See Appendix A, "Customer Support Information, "FCC Notification and Repair" section for registration numbers and more information regarding Part 68.

**Part 68: Answer-Supervision Signaling.** Allowing this equipment to be operated in a manner that does not provide proper answer-supervision signaling is in violation of Part 68 Rules. This equipment returns answer-supervision signals to the public switched network when:

- Answered by the called station
- Answered by the attendant
- Routed to a recorded announcement that can be administered by the CPE user

This equipment returns answer-supervision signals on all DID calls forwarded back to the public switched telephone network. Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

### **Industry Canada (IC) Interference Information**

NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le reglement sur le brouillage radioélectrique édicté par le Industrie Canada.

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## Ordering Information

**Call:** Avaya Publications Center  
Voice 1 800 457-1235 International Voice +1 207.866.6701  
Fax 1 800 457-1764 International Fax +1 207.626.7269

**Write:** GlobalWare Solutions  
200 Ward Hill Avenue  
Haverhill, MA 01835 USA  
Attention: Avaya Account  
Management

**Email:** totalware@gwsmail.com

**Order:** Document No. 555-730-113  
Issue 1, May, 2003

For more information about Avaya documents, refer to the section entitled "Related Documents" in "About This Guide" in *Feature Reference*.

## Support Telephone Number

In the continental U.S., Avaya provides a toll free customer helpline 24 hours a day. Call the Avaya Customer Care Center at **1 800 628-2888** or your Avaya authorized dealer if you need assistance when installing, programming, or using your system. Outside the continental U.S., contact your local Avaya authorized representative.

## Warranty

Warranty: Avaya Inc. provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language as well as information regarding support for this product, while under warranty, is available through the following website: [www.avaya.com/support](http://www.avaya.com/support).

## Obtaining Products

To learn more about Avaya products and to order products, contact Avaya Direct, the direct-market organization of Avaya Business Communications Systems. Access their web site at [avaya.com/direct](http://avaya.com/direct) or call 800 426-2455.

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# System Forms

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## Overview

This package contains one copy of each system planning form. The forms are in numerical order and organized according to planning purpose, as shown in Table 1. You should make copies of these forms and use the copies, keeping the originals for future use. Planning forms for data communications are contained in Appendix C of *System Planning*. The T1/PRI Planner is contained in Appendix D of *System Planning*. The NI-1 BRI Planner is contained in Appendix G of *System Planning*. Information for obtaining the Network Engineering forms is contained in Appendix I of *System Planning*.

**Table 1. System Forms**

Used for Planning...	Form No.	Form Title
Features and Calling Privileges	N/A	Employee Communication Survey
Control Unit Assembly and Operating Conditions	1	System Planning
System Component Numbering	2a	System Numbering: Extension Jacks
	2b	System Numbering: Digital Adjuncts
	2c	System Numbering: Line/Trunk Jacks
	2d	System Numbering: Special Renumbers

**Table 1. System Forms—Continued**

<b>Used for Planning...</b>	<b>Form No.</b>	<b>Form Title</b>
Incoming Line/Trunk Connections	3a	Incoming Trunks: Remote Access
	3b	Incoming Trunks: DS1 Connectivity (100D, 100R INA, or 100 DCD Module)
	3c	Incoming Trunks: Tie
	3d	Incoming Trunks: DID
	3e	Automatic Route Selection Worksheet
	3f	Automatic Route Selection Tables
	3g	Automatic Route Selection Default and Special Numbers Tables
	3h	LS-ID Delay
	3i	Incoming Trunks: BRI Options
	3j	Enhanced 911 Service
	4c	Extension Copy: MLX Telephone Template
	4d	MLX Telephone
	4e	MFM Adjunct: MLX Telephone
	4f	Tip/Ring Equipment
	4g	Extension Copy: ETR Telephone Template
	4h	ETR Telephone
	4i	Extension Copy: MLS Telephone Template
	4j	MLS Telephone
	4k	4400/4400D Telephone
	4l	Extension Copy: Multiline 4400-Series Telephone Template
	4m	Multiline 4400-Series Telephone
	4n	Extension Copy: Wireless Telephone
	4o	Wireless Telephone
	5b	Direct-Line Console (DLC)
	5c	MFM Adjunct: DLC
	5d	Queued Call Console (QCC)

**Table 1. System Forms—Continued**

<b>Used for Planning...</b>	<b>Form No.</b>	<b>Form Title</b>
Features for Operators	6a	Optional Operator Features
Features for User	6b	Optional Extension Features
Groups	6c	Principal User of Personal Line
Features for Systemwide Use	6d	Message-Waiting Receivers
	6e	Allowed Lists
	6f	Disallowed Lists
	6g	Call Restriction Assignments and Lists
	6h	Account Code Verification List (Release 3.0 and later) Authorization Codes
	6i	Pool Dial-Out Code Restrictions
	7a	Call Pickup Groups
	7b	Group Paging
	7c	Group Coverage
	7d	Group Calling
	8a	System Features
	9a	Night Service: Group Assignment
	9b	Night Service: Outward Restriction
	9c	Night Service: Time Set
	10a	Label Form: Posted Message
10b	System Speed Dial	
11	Service Observing: Group Assignment	



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## Employee Communication Survey

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Name \_\_\_\_\_ Room \_\_\_\_\_ Extension \_\_\_\_\_

Name of work group (Sales, Customer Service, etc.) \_\_\_\_\_

Please answer each question below.

1. Do you regularly use any of the following outside lines? (Check any that apply)

- WATS
- FX (foreign exchange)
- Tie
- None of the above or don't know

2. Are your phone calls covered when you're away from your desk?

- No
- Yes      By whom? \_\_\_\_\_  
\_\_\_\_\_

3. Do you want your phone number to appear on another person's phone for screening, or covering calls, or for any other reasons?

- No
- Yes      Please list these people:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Do you cover phone calls for co-workers when they are away from their desks?

- No
- Yes      For whom? \_\_\_\_\_  
\_\_\_\_\_

Which of those people should have a button on your phone used exclusively for his or her calls?

\_\_\_\_\_  
\_\_\_\_\_

When you are unable to cover calls, it is done by \_\_\_\_\_

\_\_\_\_\_

# MERLIN MAGIX™ Integrated System Release 2.0

## Employee Communication Survey

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5. Is there a group of people with whom you share responsibilities such that it would be convenient if you could answer each other's calls?

- No
- Yes    With whom? \_\_\_\_\_  
\_\_\_\_\_

6. Would you say your phone use is

- Heavy
- Average
- Light

Do you need to handle more than two calls at time?

If yes, how many? \_\_\_\_\_

7. Do you have a data terminal or personal computer at your workstation?

- No    Do you expect to get one within the next year?
  - No
  - Yes

8. Do you use account codes for charge-back of calls?

- No
- Yes    Please list all the codes you use (attach another sheet if necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Are there numbers that you and other people in your organization dial over and over every day?

- No
- Yes    Please list these numbers:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Do you want to be able to pick up other people's calls when you hear their phones ring?

- No
- Yes    Please list these people:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**Employee Communication Survey**

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11. Do you need to view incoming caller information?

No

Yes For what purpose? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**Employee Communication Survey**

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## System Planning

### Line/Trunk Capacity\*

Module Type	Number of Modules	Trunks Supported by Module	Total Trunks by Module Type
408 GS/LS-ID-MLX	x	4	
412 LS-ID-TDL	x	4	
400EM	x	4	
800 DID†	x	8	
100D‡	x	24	
100R INA‡	x	24	
100 DCD‡, §	x	24	
800 GS/LS-ID	x	8	
800 NI-BRI**	x	16	
System Totals			

### Extension Capacity\*

Module Type	Number of Modules	Physical Jacks per Module	Physical Jacks by Module Type	Extensions Assigned	Total Extensions Assigned	
008 MLX	x	8	x	2		
408 GS/LS-ID-MLX	x	8	x	2		
412 LS-ID-TDL	x	12	x	2		
016 (T/R)	x	16	x	1		
016 MLX	x	16	x	1		
016 ETR	x	16	x	1		
024 TDL	x	24	x	2		
008 OPT	x	8	+	( ___x4)††		
MERLIN Messaging	N / A	x	7	N / A	x	12††
System Totals						

\* System capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.

† Hybrid/PBX mode only.

‡ The 100D, 100R INA, and 100 DCD modules have one physical jack that supports 24 trunks.

§ Release 1.5 or later systems.

\*\* The 800 NI-BRI module has 8 physical jacks that support 16 trunks. Up to five 800 NI-BRI modules (or any combination of LINE/TRUNK modules up to the system maximum of 80 trunks) may be placed in the system. However, the number of 800 NI-BRI modules plus 100D, 100R INA, and 100 DCD modules cannot exceed 3 per carrier.

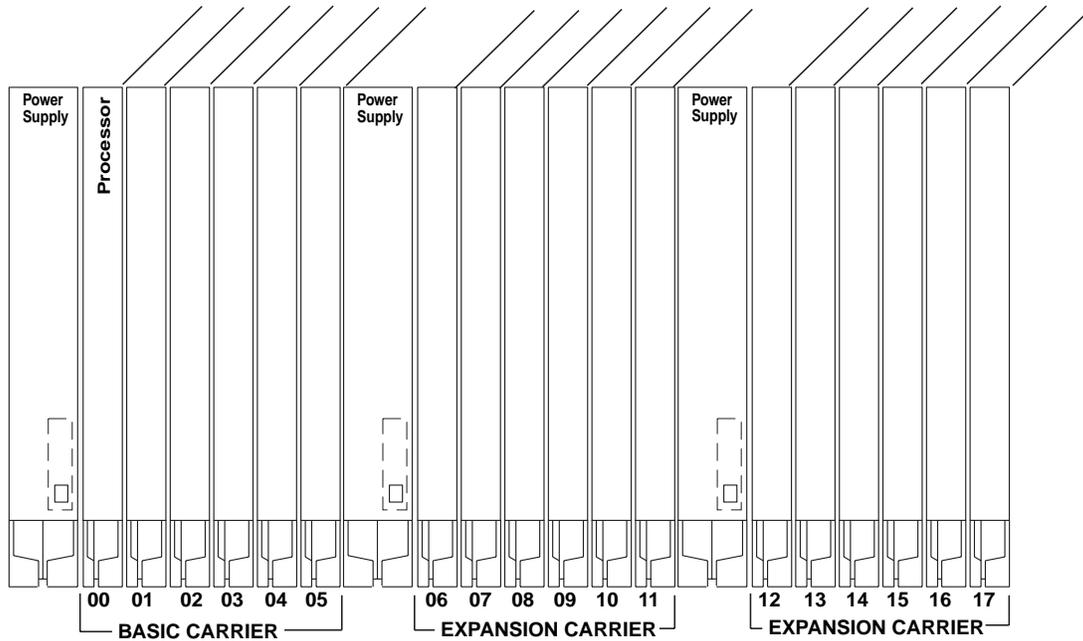
†† The 008 OPT module is assigned 12 extension numbers although there are only 8 physical extension jacks.

‡‡ The MERLIN Messaging module has 7 dedicated internal ports, but assigns 12 total extensions.

## System Planning

### Control Unit Diagram

UnitLoadTotal _____	UnitLoadTotal _____	UnitLoadTotal _____
Auxiliary Power Required	Auxiliary Power Required	Auxiliary Power Required
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No



### System Operating Conditions

#### Programming Equipment

- System Programming Console  
Logical ID \_\_\_\_\_ Ext. No. \_\_\_\_\_
- PC with WinSPM software
- PCMCIA Memory Card

#### System Mode

- Key ♦
- Hybrid/PBX \*
- Behind Switch  
Host Dial Codes:  
  - Transfer \_\_\_\_\_
  - Conference \_\_\_\_\_
  - Drop \_\_\_\_\_
- Permanent Key

#### Language Selection

- System:  
 English ♦  French  Spanish
- SMDR:  
 English ♦  French  Spanish
- Printer:  
 English ♦  French  Spanish

#### Automatic Maintenance Busy

- Enable
- Disable ♦

#### Set System Date

- Yes

#### Backup

- Automatic  
Weekly at \_\_\_\_\_  
Daily at \_\_\_\_\_
- Manual

#### System Consoles

- QCC (s)  
\_\_\_\_\_
- DLC (s)  
\_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

#### Second Dial Tone Timer

\_\_\_\_\_ (0♦ – 5000 ms)

♦ Factory Setting for system software

\* Factory Setting for hardware

**Applications\***

- Automated Document Delivery System (ADDS)

Notes: \_\_\_\_\_  
\_\_\_\_\_

- Call Accounting System (CAS) for Plus V3†

Notes: \_\_\_\_\_  
\_\_\_\_\_

- Call Accounting System for Windows

Notes: \_\_\_\_\_  
\_\_\_\_\_

- Call Accounting Terminal (CAT)

- Business  
 Hospitality

Notes: \_\_\_\_\_  
\_\_\_\_\_

- Centrex

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- CONVERSANT®

Notes: \_\_\_\_\_  
\_\_\_\_\_

- MERLIN Messaging™ Voice Messaging System

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- MERLIN MAGIX Reporter

Notes: \_\_\_\_\_  
\_\_\_\_\_

- Group IV Fax

- Primary Rate Interface (PRI)                       Basic Rate Interface (BRI)

Notes: \_\_\_\_\_

- Windows™ System Programming and Maintenance (WinSPM)

Notes: \_\_\_\_\_

- Video Conferencing

Notes: \_\_\_\_\_

\* *CAUTION: General information about these applications is in the Feature Reference. But to ensure proper operation, you must review the documentation provided with the applications.*

† *Orderable only as an upgrade to existing CAS installations.*

**Form 1** (Continued)

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- IS III\*
  - IVP/Auto Attendant     AUDIX Voice Power     CAS
  - FAX Attendant System™  Integrated Administration

Notes: \_\_\_\_\_

- PassageWay Direct Connect Solution

Notes: \_\_\_\_\_

- Computer Telephony Integration
  - NetWare                       Windows NT

Telephony Application:

Notes: \_\_\_\_\_

- Octel 100 (also known as Messaging 2000)

Notes:

- Enhanced Customer Care Solution

Notes: \_\_\_\_\_

- Other \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Notes: \_\_\_\_\_

\* Not Orderable

**System Numbering: Extension Jacks**

**Renumber System\***  2-Digit ♦  Selected Extension Numbers  3-Digit  Set Up Space  Set Up Space  Networked Switch  No  Yes  Centralized Voice Messaging  No  Yes

Mod. Type	Log. ID	Jack Type			Equipment	2-Dig. Ext. No. ♦	3-Dig. Ext. No.	Set Up Space	Renumber to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq. ‡	Appl#	Rot. Dial	CTI Link**
		D†	T	E													
	1					10	7100										N/A
	2					11	7101										
	3					12	7102										
	4					13	7103										
	5					14	7104										N/A
	6					15	7105										
	7					16	7106										
	8					17	7107										
	9					18	7108										N/A
	10					19	7109										
	11					20	7110										
	12					21	7111										
	13					22	7112										N/A
	14					23	7113										
	15					24	7114										
	16					25	7115										
	17					26	7116										N/A
	18					27	7117										
	19					28	7118										
	20					29	7119										
	21					30	7120										N/A
	22					31	7121										
	23					32	7122										
	24					33	7123										

Shaded lines indicate possible operator positions.

♦ Factory Setting

\* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.

† Use Form 2b for adjuncts connected via MFM.

‡ Ringing Frequency is programmable on the 016 T/R module only.

# The maximum number of VMI ports is 24.

\*\* The maximum number of CTI links is 1.

**System Numbering: Extension Jacks**

Mod. Type	Log. ID	Jack Type		Equipment	2-Dig. Ext. No. ♦	3-Dig. Ext. No.	Set Up Space	Renumber to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq. ‡	Appl#	Rot. Dial	CTI Link**
		D †	T E													
	25				34	124	7124									N/A
	26				35	125	7125									
	27				36	126	7126									
	28				37	127	7127									
	29				38	128	7128									N/A
	30				39	129	7129									
	31				40	130	7130									
	32				41	131	7131									
	33				42	132	7132									N/A
	34				43	133	7133									
	35				44	134	7134									
	36				45	135	7135									
	37				46	136	7136									N/A
	38				47	137	7137									
	39				48	138	7138									
	40				49	139	7139									
	41				50	140	7140									N/A
	42				51	141	7141									
	43				52	142	7142									
	44				53	143	7143									
	45				54	144	7144									N/A
	46				55	145	7145									
	47				56	146	7146									
	48				57	147	7147									

Shaded lines indicate possible operator positions.

♦ Factory Setting

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		D†	T	E													
	49					58	148	7148									N/A
	50					59	149	7149									
	51					60	150	7150									
	52					61	151	7151									
	53					62	152	7152									N/A
	54					63	153	7153									
	55					64	154	7154									
	56					65	155	7155									
	57					66	156	7156									N/A
	58					6700	157	7157									
	59					6701	158	7158									
	60					6702	159	7159									
	61					6703	160	7160									N/A
	62					6704	161	7161									
	63					6705	162	7162									
	64					6706	163	7163									
	65					6707	164	7164									N/A
	66					6708	165	7165									
	67					6709	166	7166									
	68					6710	167	7167									
	69					6711	168	7168									N/A
	70					6712	169	7169									
	71					6713	170	7170									
	72					6714	171	7171									

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 ♦ Factory Setting  
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		D†	T E													
	73				6715	172	7172									N/A
	74				6716	173	7173									
	75				6717	174	7174									
	76				6718	175	7175									
	77				6719	176	7176									N/A
	78				6720	177	7177									
	79				6721	178	7178									
	80				6722	179	7179									
	81				6723	180	7180									N/A
	82				6724	181	7181									
	83				6725	182	7182									
	84				6726	183	7183									
	85				6727	184	7184									N/A
	86				6728	185	7185									
	87				6729	186	7186									
	88				6730	187	7187									
	89				6731	188	7188									N/A
	90				6732	189	7189									
	91				6733	190	7190									
	92				6734	191	7191									
	93				6735	192	7192									N/A
	94				6736	193	7193									
	95				6737	194	7194									
	96				6738	195	7195									

Shaded lines indicate possible operator positions.  
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		D	T	E														
	97					6739	196	7196									N/A	
	98					6740	197	7197										
	99					6741	198	7198										
	100					6742	199	7199										
	101					6743	200	7200										N/A
	102					6744	201	7201										
	103					6745	202	7202										
	104					6746	203	7203										
	105					6747	204	7204										N/A
	106					6748	205	7205										
	107					6749	206	7206										
	108					6750	207	7207										
	109					6751	208	7208										N/A
	110					6752	209	7209										
	111					6753	210	7210										
	112					6754	211	7211										
	113					6755	212	7212										N/A
	114					6756	213	7213										
	115					6757	214	7214										
	116					6758	215	7215										
	117					6759	216	7216										N/A
	118					6760	217	7217										
	119					6761	218	7218										
	120					6762	219	7219										

Shaded lines indicate possible operator positions.  
 ♦ Factory Setting  
 \* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.  
 † Use Form 2b for adjuncts connected via MFM.  
 ‡ Ringing Frequency is programmable on the 016 T/R module only.  
 # The maximum number of VMI ports is 24.  
 \*\* The maximum number of CTI links is 1.

**System Numbering: Extension Jacks**

Mod. Type	Log. ID	Jack Type		Equipment	2-Dig. Ext. No. ♦	3-Dig. Ext. No.	Set Up Space	Renumber to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq. †	Appl#	Rot. Dial	CTI Link**
		D †	T E													
	121				6763	220	7220									N/A
	122				6764	221	7221									
	123				6765	222	7222									
	124				6766	223	7223									
	125				6767	224	7224									N/A
	126				6768	225	7225									
	127				6769	226	7226									
	128				6770	227	7227									
	129				6771	228	7228									N/A
	130				6772	229	7229									
	131				6773	230	7230									
	132				6774	231	7231									
	133				6775	232	7232									N/A
	134				6776	233	7233									
	135				6777	234	7234									
	136				6778	235	7235									
	137				6779	236	7236									N/A
	138				6780	237	7237									
	139				6781	238	7238									
	140				6782	239	7239									
	141				6783	240	7240									N/A
	142				6784	241	7241									
	143				6785	242	7242									
	144				6786	243	7243									

Shaded lines indicate possible operator positions.

- ♦ Factory Setting
- \* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.
- † Use Form 2b for adjuncts connected via MFM.
- ‡ Ringing Frequency is programmable on the 016 T/R module only.
- # The maximum number of VMI ports is 24.
- \*\* The maximum number of CTI links is 1.

**System Numbering: Extension Jacks**

Mod. Type	Log. ID	Jack Type		Equipment	2-Dig. Ext. No.♦	3-Dig. Ext. No.	Set Up Space	Renumbr to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq.‡	Appl#	Rot. Dial	CTI Link**
		D†	T E													
	145				6787	244	7244									N/A
	146				6788	245	7245									
	147				6789	246	7246									
	148				6790	247	7247									
	149				6791	248	7248									N/A
	150				6792	249	7249									
	151				6793	250	7250									
	152				6794	251	7251									
	153				6795	252	7252									N/A
	154				6796	253	7253									
	155				6797	254	7254									
	156				6798	255	7255									
	157				6799	256	7256									N/A
	158				6800	257	7257									
	159				6801	258	7258									
	160				6802	259	7259									
	161				6803	260	7260									N/A
	162				6804	261	7261									
	163				6805	262	7262									
	164				6806	263	7263									
	165				6807	264	7264									N/A
	166				6808	265	7265									
	167				6809	266	7266									
	168				6810	267	7267									

Shaded lines indicate possible operator positions.  
 ♦ Factory Setting  
 \* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.  
 † Use Form 2b for adjuncts connected via MFM.  
 ‡ Ringing Frequency is programmable on the 016 T/R module only.  
 # The maximum number of VMI ports is 24.  
 \*\* The maximum number of CTI links is 1.

**System Numbering: Extension Jacks**

Mod. Type	Log. ID	Jack Type			Equipment	2-Dig. Ext. No. ♦	3-Dig. Ext. No.	Set Up Space	Renumbr to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq. ‡	Appl#	Rot. Dial	CTI Link**	
		D	T	E														
	169					6811	268	7268									N/A	
	170					6812	269	7269										
	171					6813	270	7270										
	172					6814	271	7271										
	173					6815	272	7272										N/A
	174					6816	273	7273										
	175					6817	274	7274										
	176					6818	275	7275										
	177					6819	276	7276										N/A
	178					6820	277	7277										
	179					6821	278	7278										
	180					6822	279	7279										
	181					6823	280	7280										N/A
	182					6824	281	7281										
	183					6825	282	7282										
	184					6826	283	7283										
	185					6827	284	7284										N/A
	186					6828	285	7285										
	187					6829	286	7286										
	188					6830	287	7287										
	189					6831	288	7288										N/A
	190					6832	289	7289										
	191					6833	290	7290										
	192					6834	291	7291										

Shaded lines indicate possible operator positions.

♦ Factory Setting

\* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.

† Use Form 2b for adjuncts connected via MFM.

‡ Ringing Frequency is programmable on the 016 T/R module only.

# The maximum number of VMI ports is 24.

\*\* The maximum number of CTI links is 1.

**System Numbering: Extension Jacks**

Mod. Type	Log. ID	Jack Type			Equipment	2-Dig. Ext. No.♦	3-Dig. Ext. No.	Set Up Space	Renumber to	Label	Old Ext. No.	Wire No.	Person, Location, or Function	Ring Freq.‡	Appl#	Rot. Dial	CTI Link**	
		D†	T	E														
	193				6835	292	7292										N/A	
	194				6836	293	7293											
	195				6837	294	7294											
	196				6838	295	7295											
	197				6839	296	7296											N/A
	198				6840	297	7297											
	198				6841	298	7298											
	200				6842	299	7299											

Shaded lines indicate possible operator positions.

♦ Factory Setting

\* The system capacity for Personal Directories is decreased by one whenever a 4424LD+ telephone is connected to a TDL port or an MLX-20L telephone is connected to an MLX port.

† Use Form 2b for adjuncts connected via MFM.

‡ Ringing Frequency is programmable on the 016 T/R module only.

# The maximum number of VMI ports is 24.

\*\* The maximum number of CTI links is 1.



**System Numbering: Digital Adjuncts**

(Make additional copies of this form as needed.)  
 Maximum: 200 Adjuncts

**Networked Switch**

No  Yes

Log. ID	Factory-Set			Renumber to	Adjuncts	2B	Pass. Bus	MLX Telephone Ext. No.	Person, Location, Function, and Equipment Type
	2-digit	3-digit	Set Up Space						
1	710	300	7300						
2	711	301	7301						
3	712	302	7302						
4	713	303	7303						
5	714	304	7304						
6	715	305	7305						
7	716	306	7306						
8	717	307	7307						
9	718	308	7308						
10	719	309	7309						
11	720	310	7310						
12	721	311	7311						
13	722	312	7312						
14	723	313	7313						
15	724	314	7314						
16	725	315	7315						
17	726	316	7316						
18	727	317	7317						
19	728	318	7318						
20	729	319	7319						
21	730	320	7320						
22	731	321	7321						
23	732	322	7322						
24	733	323	7323						
25	734	324	7324						
26	735	325	7325						
27	736	326	7326						
28	737	327	7327						
29	738	328	7328						
30	739	329	7329						
31	740	330	7330						
32	741	331	7331						
33	742	332	7332						
34	743	333	7333						
35	744	334	7334						
36	745	335	7335						
37	746	336	7336						
38	747	337	7337						
39	748	338	7338						
40	749	339	7339						

**System Numbering: Digital Adjuncts**

(Make additional copies of this form as needed.)

Maximum: 200 Adjuncts

Log. ID	Factory-Set			Renumbr to	Adjuncts	2B	Pass. Bus	MLX Telephone Ext. No.	Person, Location, Function, and Equipment Type
	2-digit	3-digit	Set Up Space						
41	750	340	7340						
42	751	341	7341						
43	752	342	7342						
44	753	343	7343						
45	754	344	7344						
46	755	345	7345						
47	756	346	7346						
48	757	347	7347						
49	758	348	7348						
50	759	349	7349						
51	760	350	7350						
52	761	351	7351						
53	762	352	7352						
54	763	353	7353						
55	764	354	7354						
56	765	355	7355						
57	766	356	7356						
58	6850	357	7357						
59	6851	358	7358						
60	6852	359	7359						
61	6853	360	7360						
62	6854	361	7361						
63	6855	362	7362						
64	6856	363	7363						
65	6857	364	7364						
66	6858	365	7365						
67	6859	366	7366						
68	6860	367	7367						
69	6861	368	7368						
70	6862	369	7369						
71	6863	370	7370						
72	6864	371	7371						
73	6865	372	7372						
74	6866	373	7373						
75	6867	374	7374						
76	6868	375	7375						
77	6869	376	7376						
78	6870	377	7377						
79	6871	378	7378						
80	6872	379	7379						

**System Numbering: Digital Adjuncts**

(Make additional copies of this form as needed.)

Maximum: 200 Adjuncts

Log. ID	Factory-Set			Renumber to	Adjuncts	2B	Pass. Bus	MLX Telephone Ext. No.	Person, Location, Function, and Equipment Type
	2-digit	3-digit	Set Up Space						
81	6873	380	7380						
82	6874	381	7381						
83	6875	382	7382						
84	6876	383	7383						
85	6877	384	7384						
86	6878	385	7385						
87	6879	386	7386						
88	6880	387	7387						
89	6881	388	7388						
90	6882	389	7389						
91	6883	390	7390						
92	6884	391	7391						
93	6885	392	7392						
94	6886	393	7393						
95	6887	394	7394						
96	6888	395	7395						
97	6889	396	7396						
98	6890	397	7397						
99	6891	398	7398						
100	6892	399	7399						
101	6893	400	7400						
102	6894	401	7401						
103	6895	402	7402						
104	6896	403	7403						
105	6897	404	7404						
106	6898	405	7405						
107	6899	406	7406						
108	6900	407	7407						
109	6901	408	7408						
110	6902	409	7409						
111	6903	410	7410						
112	6904	411	7411						
113	6905	412	7412						
114	6906	413	7413						
115	6907	414	7414						
116	6908	415	7415						
117	6909	416	7416						
118	6910	417	7417						
119	6911	418	7418						
120	6912	419	7419						

**System Numbering: Digital Adjuncts**

(Make additional copies of this form as needed.)

Maximum: 200 Adjuncts

Log. ID	Factory-Set			Renumbr to	Adjuncts	2B	Pass. Bus	MLX Telephone Ext. No.	Person, Location, Function, and Equipment Type
	2-digit	3-digit	Set Up Space						
121	6913	420	7420						
122	6914	421	7421						
123	6915	422	7422						
124	6916	423	7423						
125	6917	424	7424						
126	6918	425	7425						
127	6919	426	7426						
128	6920	427	7427						
129	6921	428	7428						
130	6922	429	7429						
131	6923	430	7430						
132	6924	431	7431						
133	6925	432	7432						
134	6926	433	7433						
135	6927	434	7434						
136	6928	435	7435						
137	6929	436	7436						
138	6930	437	7437						
139	6931	438	7438						
140	6932	439	7439						
141	6933	440	7440						
142	6934	441	7441						
143	6935	442	7442						
144	6936	443	7443						
145	6937	444	7444						
146	6938	445	7445						
147	6939	446	7446						
148	6940	447	7447						
149	6941	448	7448						
150	6942	449	7449						
151	6943	450	7450						
152	6944	451	7451						
153	6945	452	7452						
154	6946	453	7453						
155	6947	454	7454						
156	6948	455	7455						
156	6949	456	7456						
157	6950	457	7457						
158	6951	458	7458						
159	6952	459	7459						

**System Numbering: Digital Adjuncts**

(Make additional copies of this form as needed.)

Maximum: 200 Adjuncts

Log. ID	Factory-Set			Renumber to	Adjuncts	2B	Pass. Bus	MLX Telephone Ext. No.	Person, Location, Function, and Equipment Type
	2-digit	3-digit	Set Up Space						
160	6953	460	7460						
161	6954	461	7461						
162	6955	462	7462						
163	6956	463	7463						
164	6957	464	7464						
165	6958	465	7465						
166	6959	466	7466						
167	6960	467	7467						
168	6961	468	7468						
169	6962	469	7469						
170	6963	470	7470						
171	6964	471	7471						
172	6965	472	7472						
173	6966	473	7473						
174	6967	474	7474						
175	6968	475	7475						
176	6969	476	7476						
177	6970	477	7477						
178	6971	478	7478						
179	6972	479	7479						
180	6973	480	7480						
181	6974	481	7481						
182	6975	482	7482						
183	6976	483	7483						
184	6977	484	7484						
185	6978	485	7485						
186	6979	486	7486						
187	6980	487	7487						
188	6981	488	7488						
189	6982	489	7489						
190	6983	490	7490						
191	6984	491	7491						
192	6985	492	7492						
193	6986	493	7493						
194	6987	494	7494						
195	6988	495	7495						
196	6989	496	7496						
197	6990	497	7497						
198	6991	498	7498						
199	6992	499	7499						
200	6993	500	7500						



**System Numbering: Line/Trunk Jacks**

Group Calling Music On Hold, Line/Trunk No. \_\_\_\_\_ Source \_\_\_\_\_ Maintenance Alarm, Line/Trunk No. \_\_\_\_\_

System Music On Hold, Line/Trunk No. \_\_\_\_\_ Source \_\_\_\_\_

Loudspeaker Page, Line/Trunk No(s). \_\_\_\_\_

Loop-Start Reliable Disconnect\*  No  Yes

No  Yes

Module Type and Slot No.	Jack Type (LS, GS, DID, Tie, etc.)	Line/Trunk No.	Pool Dial-Out Code††	Re-number to	Incoming Line/Trunk Type (Main No., Personal Line, WATS, FX, NI-BRI, etc.)	Telephone Number or Equipment	Label	Outmode Signaling		Toll Type Prefix Req'd for LD		Hold Disc. Interval		QCC Operator to Receive Calls† (No ♦)	QCC Queue Priority Level† (4 ♦)	Function
								TT♦	R	Yes♦	No	Short	Long ♦			
		1					.....									
		2					.....									
		3					.....									
		4					.....									
		5					.....									
		6					.....									
		7					.....									
		8					.....									
		9					.....									
		10					.....									
		11					.....									
		12					.....									
		13					.....									
		14					.....									
		15					.....									
		16					.....									
		17					.....									
		18					.....									
		19					.....									
		20					.....									

♦ Factory Setting  
 \* If the system has AUDIX Voice Power/FAX Attendant System™, Integrated Administration will automatically set Loop-Start Reliable Disconnect to Yes.  
 † Hybrid/PBX mode only.  
 ‡ Maximum: 11 pools with up to 80 trunks per pool.  
 Factory settings: 70 (main), 891 (dial-in tie), 892 (automatic-in tie).

### System Numbering: Line/Trunk Jacks

Module Type and Slot No.	Log. ID	Jack Type (LS, GS, DID, Tie, etc.)	Line/Trunk No.	Pool Dial-Out Code††	Re-number to	Incoming Line/Trunk Type (Main No., Personal Line, WATS, FX, NI-BRI, etc.)	Telephone Number or Equipment	Label	Outmode Signaling		Toll Type Prefix Req'd for LD		Hold Disc. Interval		QCC Operator to Receive Calls† (No ♦)	QCC Queue Priority Level† (4 ♦)	Function
									TT♦	R	Yes♦	No	Short	Long ♦			
	21		821														
	22		822														
	23		823														
	24		824														
	25		825														
	26		826														
	27		827														
	28		828														
	29		829														
	30		830														
	31		831														
	32		832														
	33		833														
	34		834														
	35		835														
	36		836														
	37		837														
	38		838														
	39		839														
	40		840														

♦ Maximum: 11 pools with up to 80 trunks per pool.  
 † Factory settings: 70 (main), 891 (dial-in tie), 892 (automatic-in tie).

♦ Factory Setting  
 † Hybrid/PBX mode only.

**System Numbering: Line/Trunk Jacks**

Module Type and Slot No.	Log. ID	Jack Type (LS, GS, DID, Tie, etc.)	Line/Trunk No.	Pool Dial-Out Code†	Re-number to	Incoming Line/Trunk Type (Main No., Personal Line, WATS, FX, NI-BRI, etc.)	Telephone Number or Equipment	Label	Outmode Signaling		Toll Type Prefix Req'd for LD		Hold Disc. Interval		QCC Operator to Receive Calls† (No ♦)	QCC Queue Priority Level† (4 ♦)	Function
									TT♦	R	Yes♦	No	Short	Long ♦			
	41		841														
	42		842														
	43		843														
	44		844														
	45		845														
	46		846														
	47		847														
	48		848														
	49		849														
	50		850														
	51		851														
	52		852														
	53		853														
	54		854														
	55		855														
	56		856														
	57		857														
	58		858														
	59		859														
	60		860														

♦ Factory Setting  
 † Hybrid/PBX mode only.  
 ‡ Maximum: 11 pools with up to 80 trunks per pool.  
 Factory settings: 70 (main), 891 (dial-in tie), 892 (automatic-in tie).

**System Numbering: Line/Trunk Jacks**

Module Type and Slot No.	Log. ID	Jack Type (LS, GS, DID, Tie, etc.)	Line/Trunk No.	Pool Dial-Out Code††	Re-number to	Incoming Line/Trunk Type (Main No., Personal Line, WATS, FX, NI-BRI, etc.)	Telephone Number or Equipment	Label	Outmode Signaling		Toll Type Prefix Req'd for LD		Hold Disc. Interval		QCC Operator to Receive Callst (No ♦)	QCC Queue Priority Level† (4 ♦)	Function
									TT♦	R	Yes♦	No	Short	Long ♦			
	61		861														
	62		862														
	63		863														
	64		864														
	65		865														
	66		866														
	67		867														
	68		868														
	69		869														
	70		870														
	71		871														
	72		872														
	73		873														
	74		874														
	75		875														
	76		876														
	77		877														
	78		878														
	79		879														
	80		880														

♦ Factory Setting  
 † Hybrid/PBX mode only.  
 ‡ Maximum: 11 pools with up to 80 trunks per pool.  
 Factory settings: 70 (main), 891 (dial-in tie), 892 (automatic-in tie).

**System Numbering: Special Renumbers**

Pools* (Form 2c) Description	Factory-Set Number	Renumber to
	70	
	890	
	891	
	892	
	893	
	894	
	895	
	896	
	897	
	898	
	899	

Group Paging (Form 7b) Group ID	Factory-Set Number	Renumber to
	793	
	794	
	795	
	796	
	797	
	798	
	799	

Park Zone (Form 6a) Description	Factory-Set Number	Renumber to
	881	
	882	
	883	
	884	
	885	
	886	
	887	
	888	

DSS Page Buttons	
PAGE 1	Beginning extension for range _____
PAGE 2	Beginning extension for range _____
PAGE 3	Beginning extension for range _____

ARS Dial-Out Code†	Default	Renumber to
	9	

Group Calling (Form 7d) Group ID Label	Factory-Set Number	Renumber to
	770	
	771	
	772	
	773	
	774	
	775	
	776	
	777	
	778	
	779	
	780	
	781	
	782	
	783	
	784	
	785	
	786	
	787	
	788	
	789	
	790	
	791	
	7920	
	7921	
	7922	
	7923	
	7924‡	
	7925‡	
	7926‡	
	7927‡	
	7928‡	
	7929‡	

Listed Directory Number* (QCC Queue)	Factory-Set Number	Renumber to
	800	

Remote Access Code (Form 3a)	Factory-Set Number	Renumber to
	889	

\* Hybrid/PBX mode only.  
† ARS Dial-Out Code is Idle Line Preference Code in Key mode.  
‡ Reserved for AUDIX Voice Power/FAX Attendant System.







### Class of Restriction without Barrier Codes

#### DID\* and Tie Trunks

##### Network Calls

- None
- Tandem
- ARS

##### Restriction

- Unrestricted
- Outward Restrict ♦
- Toll Restrict

##### ARS Restriction Level\*

- |                              |                            |
|------------------------------|----------------------------|
| <input type="checkbox"/> 0   | <input type="checkbox"/> 4 |
| <input type="checkbox"/> 1   | <input type="checkbox"/> 5 |
| <input type="checkbox"/> 2   | <input type="checkbox"/> 6 |
| <input type="checkbox"/> 3 ♦ |                            |

##### Disallowed List Access

- List Numbers (0-7)

\_\_\_\_\_

\_\_\_\_\_

#### Non-Tie Trunks

##### Network Calls

- None
- Tandem
- ARS

##### Restriction

- Unrestricted
- Outward Restrict ♦
- Toll Restrict

##### ARS Restriction Level\*

- |                              |                            |
|------------------------------|----------------------------|
| <input type="checkbox"/> 0   | <input type="checkbox"/> 4 |
| <input type="checkbox"/> 1   | <input type="checkbox"/> 5 |
| <input type="checkbox"/> 2   | <input type="checkbox"/> 6 |
| <input type="checkbox"/> 3 ♦ |                            |

##### Disallowed List Access

- List Numbers (0-7)

\_\_\_\_\_

\_\_\_\_\_

♦ Factory Setting  
\* Hybrid/PBX mode only

### Class of Restriction with Barrier Codes

Maximum: 16 barrier codes. (Make copies if more than 4 are assigned.)

<p><b>Barrier Code</b> Number _____ Digits _____ (0-9, plus *)</p> <p><b>Restriction</b> <input type="checkbox"/> Unrestricted <input type="checkbox"/> Outward Restrict ♦ <input type="checkbox"/> Toll Restrict</p> <p><b>ARS Restriction Level*</b> <input type="checkbox"/> 0                      <input type="checkbox"/> 4 <input type="checkbox"/> 1                      <input type="checkbox"/> 5 <input type="checkbox"/> 2                      <input type="checkbox"/> 6 <input type="checkbox"/> 3 ♦</p> <p><b>Disallowed List Access</b> <input type="checkbox"/> List Numbers (0-7) _____ _____</p>
---

<p><b>Barrier Code</b> Number _____ Digits _____ (0-9, plus *)</p> <p><b>Restriction</b> <input type="checkbox"/> Unrestricted <input type="checkbox"/> Outward Restrict ♦ <input type="checkbox"/> Toll Restrict</p> <p><b>ARS Restriction Level*</b> <input type="checkbox"/> 0                      <input type="checkbox"/> 4 <input type="checkbox"/> 1                      <input type="checkbox"/> 5 <input type="checkbox"/> 2                      <input type="checkbox"/> 6 <input type="checkbox"/> 3 ♦</p> <p><b>Disallowed List Access</b> <input type="checkbox"/> List Numbers (0-7) _____ _____</p>
---

<p><b>Barrier Code</b> Number _____ Digits _____ (0-9, plus *)</p> <p><b>Restriction</b> <input type="checkbox"/> Unrestricted <input type="checkbox"/> Outward Restrict ♦ <input type="checkbox"/> Toll Restrict</p> <p><b>ARS Restriction Level*</b> <input type="checkbox"/> 0                      <input type="checkbox"/> 4 <input type="checkbox"/> 1                      <input type="checkbox"/> 5 <input type="checkbox"/> 2                      <input type="checkbox"/> 6 <input type="checkbox"/> 3 ♦</p> <p><b>Disallowed List Access</b> <input type="checkbox"/> List Numbers (0-7) _____ _____</p>
---

<p><b>Barrier Code</b> Number _____ Digits _____ (0-9, plus *)</p> <p><b>Restriction</b> <input type="checkbox"/> Unrestricted <input type="checkbox"/> Outward Restrict ♦ <input type="checkbox"/> Toll Restrict</p> <p><b>ARS Restriction Level*</b> <input type="checkbox"/> 0                      <input type="checkbox"/> 4 <input type="checkbox"/> 1                      <input type="checkbox"/> 5 <input type="checkbox"/> 2                      <input type="checkbox"/> 6 <input type="checkbox"/> 3 ♦</p> <p><b>Disallowed List Access</b> <input type="checkbox"/> List Numbers (0-7) _____ _____</p>
---

♦ Factory Setting  
\* Hybrid/PBX mode only

**Form 3b**

**Incoming Trunks: DS1 Connectivity (100D, 100R INA, or 100 DCD Module)**

Module 1 Slot No. \_\_\_\_\_

<p><b>Type of Service</b></p> <input type="checkbox"/> T1 ♦* <input type="checkbox"/> PRI††	<p><b>Switch Type (PRI Service Only)</b></p> <input type="checkbox"/> 4ESS♦*† <input type="checkbox"/> DEX600E <input type="checkbox"/> 5ESS† <input type="checkbox"/> Legend-PBX <input type="checkbox"/> DMS-100 <input type="checkbox"/> Legend-NTWK <input type="checkbox"/> DMS-250	<p><b>Frame Format</b></p> <input type="checkbox"/> D4 Compatible ♦ <input type="checkbox"/> Extended Superframe (ESF)	<p><b>Clock Synchronization</b></p> <p><b>Priority</b></p> <input type="checkbox"/> Primary ♦ <input type="checkbox"/> Secondary <input type="checkbox"/> Tertiary <input type="checkbox"/> None																																																																				
<p><b>T1 Trunks</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Trunk Type</th> <th rowspan="2">Channel Number(s)</th> <th colspan="3">For Tie/All Tie</th> </tr> <tr> <th>Tie-PBX</th> <th>Toll</th> <th>S56</th> </tr> </thead> <tbody> <tr><td>Ground-Start</td><td></td><td></td><td></td><td></td></tr> <tr><td>Loop-Start</td><td></td><td></td><td></td><td></td></tr> <tr><td>Tie</td><td></td><td></td><td></td><td></td></tr> <tr><td>Unequipped</td><td></td><td></td><td></td><td></td></tr> <tr><td>All Ground-Start</td><td></td><td></td><td></td><td></td></tr> <tr><td>All Loop-Start</td><td></td><td></td><td></td><td></td></tr> <tr><td>All Tie</td><td></td><td></td><td></td><td></td></tr> <tr><td>All Unequipped</td><td></td><td></td><td></td><td></td></tr> <tr><td>DID</td><td></td><td></td><td></td><td></td></tr> <tr><td>All DID</td><td></td><td></td><td></td><td></td></tr> <tr><td>S56 Data</td><td></td><td></td><td></td><td></td></tr> <tr><td>All S56 Data</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Trunk Type	Channel Number(s)	For Tie/All Tie			Tie-PBX	Toll	S56	Ground-Start					Loop-Start					Tie					Unequipped					All Ground-Start					All Loop-Start					All Tie					All Unequipped					DID					All DID					S56 Data					All S56 Data					<p><b>Suppression (Line Code)</b></p> <input type="checkbox"/> AMI-ZCS ♦ <input type="checkbox"/> B8ZS	<p><b>Source</b></p> <input type="checkbox"/> Loop ♦ <input type="checkbox"/> Local
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			<p><b>Activation§</b></p> <input type="checkbox"/> Activated ♦ <input type="checkbox"/> Deactivated																																																																				

Module 2 Slot No. \_\_\_\_\_

<p><b>Type of Service</b></p> <input type="checkbox"/> T1 ♦* <input type="checkbox"/> PRI††	<p><b>Switch Type (PRI Service Only)</b></p> <input type="checkbox"/> 4ESS♦*† <input type="checkbox"/> DEX600E <input type="checkbox"/> 5ESS† <input type="checkbox"/> Legend-PBX <input type="checkbox"/> DMS-100 <input type="checkbox"/> Legend-NTWK <input type="checkbox"/> DMS-250	<p><b>Frame Format</b></p> <input type="checkbox"/> D4 Compatible ♦ <input type="checkbox"/> Extended Superframe (ESF)	<p><b>Clock Synchronization</b></p> <p><b>Priority</b></p> <input type="checkbox"/> Primary ♦ <input type="checkbox"/> Secondary <input type="checkbox"/> Tertiary <input type="checkbox"/> None																																																																				
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NOTE: Do not configure 100D, 100R INA, or 100 DCD modules to do trunk-to-trunk transfers between DS1 and LS lines/trunks.

♦ Factory Setting

\* The factory setting of T1 is **not** automatically selected if you enter nothing; it must be entered.

† PRI must be selected as the Type of DS1 connectivity before PRI options are entered.

‡ AT&T Toll and 5ESS local PRI service requires service provider switching equipment to be either 4ESS Generic 13 through Generic 16, 5ESS Generic 6, or a 5ESS serving the FTS2000 network.

§ For 100R INA and 100 DCD modules only.

Module 3 Slot No. \_\_\_\_\_

<b>Type of Service</b>	<b>Switch Type (PRI Service Only)</b>	<b>Frame Format</b>	<b>Clock Synchronization</b>
<input type="checkbox"/> T1 ♦*	<input type="checkbox"/> 4ESS♦†	<input type="checkbox"/> D4 Compatible ♦	<b>Priority</b>
<input type="checkbox"/> PRI†‡	<input type="checkbox"/> DEX600E	<input type="checkbox"/> Extended Superframe (ESF)	<input type="checkbox"/> Primary ♦
	<input type="checkbox"/> 5ESS‡	<input type="checkbox"/> AMI-ZCS ♦	<input type="checkbox"/> Secondary
	<input type="checkbox"/> DMS-100	<input type="checkbox"/> B8ZS	<input type="checkbox"/> Tertiary
	<input type="checkbox"/> DMS-250	<input type="checkbox"/> Legend-PBX	<input type="checkbox"/> None
		<input type="checkbox"/> Legend-NTWK	<b>Source</b>
<b>T1 Trunks</b>		<input type="checkbox"/> Common-Channel Signaling (CCS)	<input type="checkbox"/> Loop ♦
		<b>Line Compensation</b>	<input type="checkbox"/> Local
		<b>Cable Feet</b>	<b>Activation</b>
		<input type="checkbox"/> 1 (-.6 dB) ♦	<input type="checkbox"/> Active ♦
		<input type="checkbox"/> 2 (-1.2 dB)	<input type="checkbox"/> Not Active
		<input type="checkbox"/> 3 (-1.8 dB)	<b>Channel Service Unit</b>
		<input type="checkbox"/> 4 (-2.4 dB)	<b>Access</b>
		<input type="checkbox"/> 5 (-3.0 dB)	<input type="checkbox"/> Foreign Exchange ♦
			<input type="checkbox"/> Special Access
			<b>Activation§</b>
			<input type="checkbox"/> Activated ♦
			<input type="checkbox"/> Deactivated

Trunk Type	Channel Number(s)	For Tie/All Tie		
		Tie-PBX	Toll	S56
Ground-Start		X	X	X
Loop-Start		X	X	X
Tie				
Unequipped		X	X	X
All Ground-Start		X	X	X
All Loop-Start		X	X	X
All Tie				
All Unequipped		X	X	X
DID		X	X	X
All DID		X	X	X
S56 Data		X	X	X
All S56 Data		X	X	X

NOTE: Do not configure 100D, 100R INA, or 100 DCD modules to do trunk-to-trunk transfers between DS1 and LS lines/trunks.

♦ Factory Setting

\* The factory setting of T1 is **not** automatically selected if you enter nothing; it must be entered.

† PRI must be selected as the Type of DS1 connectivity before PRI options are entered.

‡ AT&T Toll and 5ESS local PRI service requires service provider switching equipment to be either 4ESS Generic 13 through Generic 16, 5ESS Generic 6, or a 5ESS serving the FTS2000 network.

§ For 100R INA or 100 DCD modules only.



**PRI Services**

Maximum: 3 Modules. (Make copies of this page for additional modules.)

Module Slot No. \_\_\_\_\_

B-Channel Group No.	Outgoing Services*	Incoming Services*	Incoming Routing	
			Dial Plan Routing†‡	Line Appearance§

\* *Services:*  
 AT&T Toll: Megacom WATS, Megacom 800, ACCUNET® SDS, Software Defined Network (SDN), MultiQuest, Long Distance.  
 5ESS Local: OUTWATS, 56/64 Digital, Virtual Private Network, INWATS.  
 MCI Toll: MCI PRISM, MCI Vnet, MCI 800, MCI 900  
 DMS-100 Local: DMS Private, DMS INWATS, DMS OUTWATS, DMS Foreign Exchange (FX), DMS Tie Trunk.  
 Other: Call-by-Call, Other.

† Hybrid/PBX mode only.

‡ If you select Dial Plan Routing, complete "Dial Plan Routing" information on Form 3b-6.

§ If you select Line Appearance, complete "Line Appearance Routing" information on Form 3b-5.



**Dial Plan Routing (Incoming Services)\***

Maximum: 16 entries

Entry No.	0	1	2	3	4	5	6	7
Service†								
Pattern to Match‡								
Total Digits in Dialed Number (0-14)								
Delete Digits (0-14)								
Add Digits (0-4)								

Entry No.	8	9	10	11	12	13	14	15
Service†								
Pattern to Match‡								
Total Digits in Dialed Number (0-14)								
Delete Digits (0-14)								
Add Digits (0-4)								

\* Hybrid/PBX mode only.

† Services:

AT&T Toll: Megacom WATS, Megacom 800, ACCUNET® SDS, Software Defined Network (SDN), MultiQuest, Long Distance.

5ESS Local: OUTWATS, 56/64 Digital, Virtual Private Network, INWATS.

MCI Toll: MCI PRISM, MCI Vnet, MCI 800, MCI 900

DMS-100 Local: DMS Private, DMS INWATS, DMS OUTWATS, DMS Foreign Exchange (FX), DMS Tie Trunk.

Other: Call-by-Call, Other.

‡ Pattern of up to 8 digits.

**Outgoing Tables (Outgoing Services)**

**Network Selection Table**

Maximum: 4 entries

Entry No.	0♦	1♦	2	3
Dial Prefix*	101***	10***		

**Special Services Table**

Maximum: 8 entries

Entry No.	0	1	2	3	4	5	6	7
Pattern to Match†	011	010	01	00	0	1		
Operator‡	none	OP	OP	P	OP	none		
Type of No. (N=Nat'l; I=Int'l)	I	I	I	N	N	N		
Delete Digits (0-4)	3	3	2	2	1	1		

♦ Defaults.

\* Dial Pattern can be up to 8 digits (\* is a wildcard); must include at least one number; cannot begin with \*.

† Pattern can be up to 4 digits; no asterisks(\*).

‡ Operator: Local Operator (OP), Presubscribed Carrier (P), No operator (none).

**Call-By-Call Service Table**

Maximum: 10 entries

Entry No.	0	1	2	3	4
Pattern to Match (up to 10 entries)					
Call Type (Voice/Data/Both)					
Service*					
Delete Digits (0-8)					

Entry No.	5	6	7	8	9
Pattern to match (up to 10 entries)					
Call-Type (Voice/Data/Both)					
Service*					
Delete Digits (0-8)					

\* Services:

AT&T Toll: Megacom WATS, Megacom 800, ACCUNET® SDS, Software Defined Network (SDN), MultiQuest, Long Distance.  
 5ESS Local: OUTWATS, 56/64 Digital, Virtual Private Network, INWATS.  
 MCI Toll: MCI PRISM, MCI Vnet, MCI 800, MCI 900  
 DMS-100 Local: DMS Private, DMS INWATS, DMS OUTWATS, DMS Foreign Exchange (FX), DMS Tie Trunk.  
 Other: Call-by-Call, Other.



**Test Telephone Numbers**

**Module 1:** \_\_\_\_\_ **Module 2:** \_\_\_\_\_ **Module 3:** \_\_\_\_\_

**PRI Protocol**

**Timers and Counters**

	Factory Setting	Change to
T200 Timer	1 second	(1000–3000 ms)
T203 Timer	30 seconds	(1–60 seconds)
N200 Counter	3 transmissions	(1–5 transmissions)
N201 Counter	260 octets	(16–260 octets)
K Counter	7 frames	(1–15 frames)
T303 Timer	4 seconds	(4–12 seconds)
T305 Timer	4 seconds	(4–30 seconds)
T308 Timer	4 seconds	(4–12 seconds)
T309 Timer	90 seconds	(30–120 seconds)
T310 Timer	60 seconds	(2–120 seconds)
T313 Timer	4 seconds	(4–60 seconds)
T316 Timer	120 seconds	(3–120 seconds)

**Terminal Equipment Identifier (TEI)**

- 0 ♦
- \_\_\_\_\_ (1–63)

♦ *Factory Setting*

### T1 Switch 56 Options\*

Maximum: 3 modules (Make additional copies of this page as needed.)

Module Slot No.: \_\_\_\_\_ Channel No.: \_\_\_\_\_

**Type**

- Incoming
- Outgoing
- Two Way ♦

**Incoming Signaling Type**

- Wink ♦
- Auto
- Delay

**Outgoing Signaling Type**

- Wink ♦
- Auto
- Delay

**Incoming Signaling Mode**

- Rotary
- Touch-tone ♦

**Incoming Signaling Mode**

- Rotary
- Touch-tone ♦

**Dial Plan Routing Options**

**Expected Digits**

- 1
- 2
- 3 ♦
- 4

**Delete Digits**

- 0 ♦
- 1
- 2
- 3
- 4

**Add Digits**

- 0 digits ♦
- Add these digits \_\_\_\_\_  
(Any number from 1-9999)

♦ Factory Setting

\* T1 must be selected as the Type of DS1 connectivity. The T1 Truck Type must be configured as S56 (not T1-tie).















**Automatic Route Selection Tables\***

Maximum: 24 Tables (16 in Release 1.0 systems). (Make a copy for each table.)

Table No. \_\_\_\_\_

**Type of Table**

- 6-Digit
- Area Code
- Exchange
- 1 + 7, dialing from
  - within area code
  - not within area code ◆

**Area Code/Exchanges**

001_____	021_____	041_____	061_____	081_____
002_____	022_____	042_____	062_____	082_____
003_____	023_____	043_____	063_____	083_____
004_____	024_____	044_____	064_____	084_____
005_____	025_____	045_____	065_____	085_____
006_____	026_____	046_____	066_____	086_____
007_____	027_____	047_____	067_____	087_____
008_____	028_____	048_____	068_____	088_____
009_____	029_____	049_____	069_____	089_____
010_____	030_____	050_____	070_____	090_____
011_____	031_____	051_____	071_____	091_____
012_____	032_____	052_____	072_____	092_____
013_____	033_____	053_____	073_____	093_____
014_____	034_____	054_____	074_____	094_____
015_____	035_____	055_____	075_____	095_____
016_____	036_____	056_____	076_____	096_____
017_____	037_____	057_____	077_____	097_____
018_____	038_____	058_____	078_____	098_____
019_____	039_____	059_____	079_____	099_____
020_____	040_____	060_____	080_____	100_____

Subpattern A Time of Day				
Pool	FRL (3 ◆)‡	Other Digits	Absorb	Call Type† (Both ◆)
1_____	_____	_____	1_____	_____
2_____	_____	_____	2_____	_____
3_____	_____	_____	3_____	_____
4_____	_____	_____	4_____	_____
5_____	_____	_____	5_____	_____
6_____	_____	_____	6_____	_____

Subpattern B Time of Day				
Pool	FRL (3 ◆)‡	Other Digits	Absorb	Call Type† (Both ◆)
1_____	_____	_____	1_____	_____
2_____	_____	_____	2_____	_____
3_____	_____	_____	3_____	_____
4_____	_____	_____	4_____	_____
5_____	_____	_____	5_____	_____
6_____	_____	_____	6_____	_____

◆ Factory Setting

\* Hybrid/PBX mode only

† Select Voice only, Data only, or Both.

‡ Local tables default FRL is 2.

Table No. \_\_\_\_\_

**Type of Table**

- 6-Digit
- Area Code
- Exchange
- 1 + 7, dialing from
  - within area code
  - not within area code ♦

**Area Code/Exchanges**

001_____	021_____	041_____	061_____	081_____
002_____	022_____	042_____	062_____	082_____
003_____	023_____	043_____	063_____	083_____
004_____	024_____	044_____	064_____	084_____
005_____	025_____	045_____	065_____	085_____
006_____	026_____	046_____	066_____	086_____
007_____	027_____	047_____	067_____	087_____
008_____	028_____	048_____	068_____	088_____
009_____	029_____	049_____	069_____	089_____
010_____	030_____	050_____	070_____	090_____
011_____	031_____	051_____	071_____	091_____
012_____	032_____	052_____	072_____	092_____
013_____	033_____	053_____	073_____	093_____
014_____	034_____	054_____	074_____	094_____
015_____	035_____	055_____	075_____	095_____
016_____	036_____	056_____	076_____	096_____
017_____	037_____	057_____	077_____	097_____
018_____	038_____	058_____	078_____	098_____
019_____	039_____	059_____	079_____	099_____
020_____	040_____	060_____	080_____	100_____

Subpattern A Time of Day					Subpattern B Time of Day				
Pool	FRL (3 ♦) ‡	Other Digits	Absorb	Call Type† (Both ♦)	Pool	FRL (3 ♦) ‡	Other Digits	Absorb	Call Type† (Both ♦)
1_____	_____	_____	1_____	_____	1_____	_____	_____	1_____	_____
2_____	_____	_____	2_____	_____	2_____	_____	_____	2_____	_____
3_____	_____	_____	3_____	_____	3_____	_____	_____	3_____	_____
4_____	_____	_____	4_____	_____	4_____	_____	_____	4_____	_____
5_____	_____	_____	5_____	_____	5_____	_____	_____	5_____	_____
6_____	_____	_____	6_____	_____	6_____	_____	_____	6_____	_____

♦ Factory Setting  
 \* Select Voice only, Data only, or Both.  
 ‡ Local tables default FRL is 2.

**Automatic Route Selection Default and Special Numbers Tables\***

**Table 25 (17 in Release 1.0 systems): Default Toll Table**

Subpattern A Time of Day					Subpattern B Time of Day				
Pool	FRL (3 ♦)	Other Digits	Absorb	Call Type† (Both ♦)	Pool	FRL (3 ♦)	Other Digits	Absorb	Call Type† (Both ♦)
1 _____	_____	_____	1 _____	_____	1 _____	_____	_____	1 _____	_____
2 _____	_____	_____	2 _____	_____	2 _____	_____	_____	2 _____	_____
3 _____	_____	_____	3 _____	_____	3 _____	_____	_____	3 _____	_____
4 _____	_____	_____	4 _____	_____	4 _____	_____	_____	4 _____	_____
5 _____	_____	_____	5 _____	_____	5 _____	_____	_____	5 _____	_____
6 _____	_____	_____	6 _____	_____	6 _____	_____	_____	6 _____	_____

**Table 26 (18 in Release 1.0 systems): Default Local Table**

Subpattern A Time of Day					Subpattern B Time of Day				
Pool	FRL (2 ♦)	Other Digits	Absorb	Call Type† (Both ♦)	Pool	FRL (2 ♦)	Other Digits	Absorb	Call Type† (Both ♦)
1 _____	_____	_____	1 _____	_____	1 _____	_____	_____	1 _____	_____
2 _____	_____	_____	2 _____	_____	2 _____	_____	_____	2 _____	_____
3 _____	_____	_____	3 _____	_____	3 _____	_____	_____	3 _____	_____
4 _____	_____	_____	4 _____	_____	4 _____	_____	_____	4 _____	_____
5 _____	_____	_____	5 _____	_____	5 _____	_____	_____	5 _____	_____
6 _____	_____	_____	6 _____	_____	6 _____	_____	_____	6 _____	_____

**Table 27 (19 in Release 1.0 systems): Dial 0**

Pool	FRL (3 ♦)	Other Digits
1 _____	_____	_____

**Table 28 (20 in Release 1.0 systems): Special Number (411, 611, 811, 911‡)**

Pool§	FRL (3 ♦)	Other Digits
1 70 _____	_____	_____

**Table 29 (Not available in Release 1.0 systems): E911**

Pool	FRL	Other Digits
1 _____	0	_____

♦ Factory Setting

\* Hybrid/PBX mode only

† Select Voice only, Data only, or Both.

‡ Release 1.0 systems only.

§ Always set to the first pool in the system; cannot be changed.









**Clock Synchronization—100D, 100R INA, 100 DCD, or BRI Modules\***

**Primary Clock Synchronization**

Slot No. \_\_\_\_\_  
DSL No. \_\_\_\_\_ (BRI only)

**Source**

- Loop
- Local (100D, 100R INA, or 100 DCD only)

**Secondary Clock Synchronization**

Slot No. \_\_\_\_\_  
DSL No. \_\_\_\_\_ (BRI only)

**Source**

- Loop ♦
- Local (100D, 100R INA, or 100 DCD only)

**Tertiary Clock Synchronization**

Slot No. \_\_\_\_\_  
DSL No. \_\_\_\_\_ (BRI only)

**Source**

- Loop ♦
- Local (100D, 100R INA, or 100 DCD only)

**Timers**

**T200 Timer**

- 1,000 ms. ♦
- \_\_\_\_\_ ms. (500 to 5,000 ms. in increments of 500 ms)

**T203 Timer**

- 33 seconds ♦
- \_\_\_\_\_ seconds (10 to 255 seconds in increments of 1 second)

**T303 Timer**

- 4 seconds ♦
- \_\_\_\_\_ seconds (2 to 10 seconds in increments of 1 second)

**T305 Timer**

- 30 seconds ♦
- \_\_\_\_\_ seconds (2 to 60 seconds in increments of 1 second)

**T308 Timer**

- 4 seconds ♦
- \_\_\_\_\_ seconds (2 to 10 seconds in increments of 1 second)

♦ Factory Setting

\* If the system includes 800 NI-BRI modules, 100D modules, 100R INA modules, and 100 DCD modules, synchronization planning should be completed at the same time. Refer to Form 3b while completing this form.

**Form 3j**

**Enhanced 911 Service\***

**Allow-11**

- Enable
- Disable ♦

**Type of E911 Service**

- E911 Partition ♦
- E911 Adjunct

**E911 Partition**

Enter trunks (801-880).

**Partition** \_\_\_\_\_ (All extensions in Partition 1 ♦)


**Partition Digits** (up to 20): \_\_\_\_\_

**Partition** \_\_\_\_\_


**Partition Digits** (up to 20): \_\_\_\_\_

**Copy Form As Needed**

♦ Factory Setting

\* Hybrid/PBX mode only; MERLIN MAGIX systems of Release 1.5 or later.

**E911 Adjunct**

Enter up to five trunks (801–880). Use loop-start or ground-start (preferred) trunks. Use ground-start trunks connected to 800 GS/LS-ID modules of vintage 1.4 or greater and to 408 GS/LS-ID-MLX modules of vintage 3.2 or greater.

--	--	--	--	--

**E911 Adjunct Alarm Extension** \_\_\_\_\_ (The first operation position is the factory setting.)

**Extension Copy: Analog Multiline Telephone Template**  
**Discontinued**

**Discontinued**

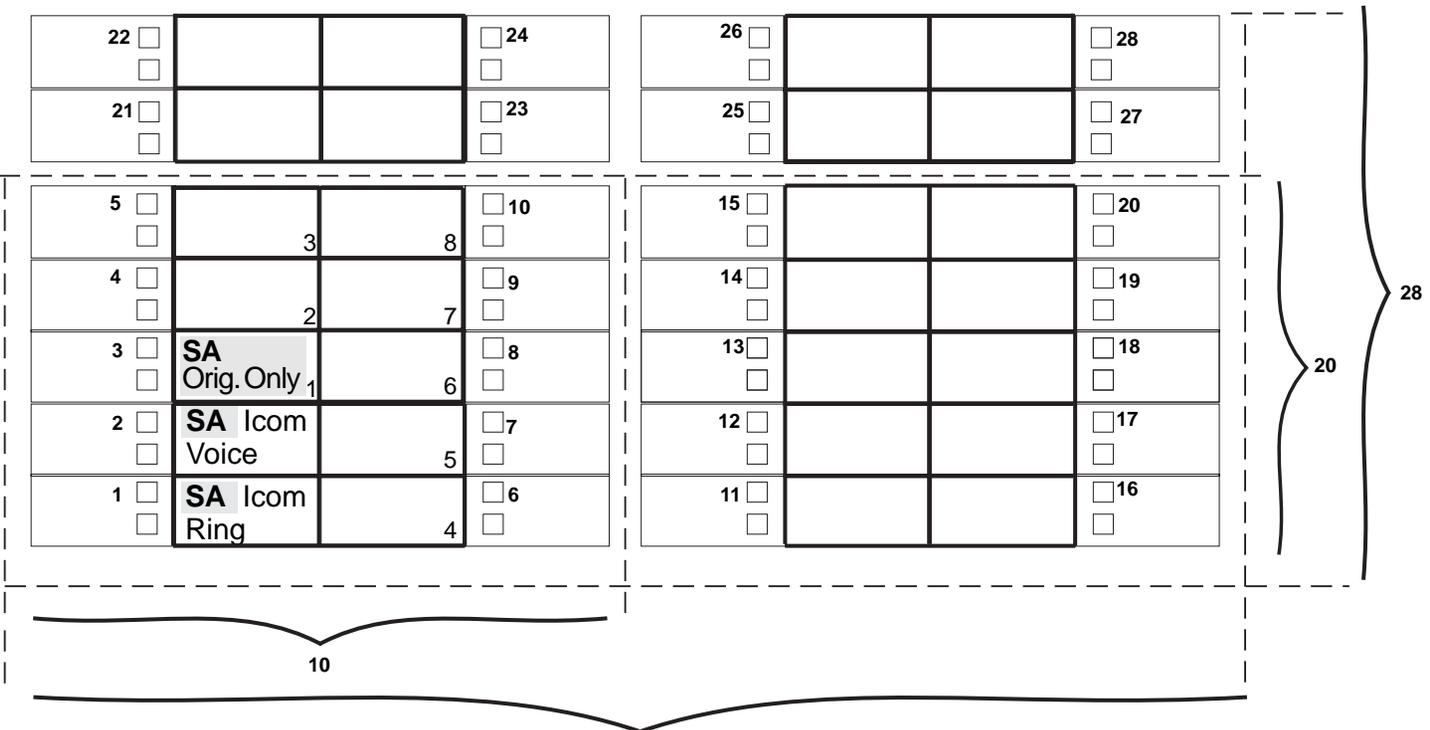
**Analog Multiline Telephone**

**Discontinued**

**Discontinued**



**Button Diagram**



**Note:** Lines 1 through 8 only default on a telephone when the system is in Key mode.





## MLX Telephone

(Make a copy of this form for each telephone.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

Wall Mount

### Telephone Model

MLX-20L®\*

MLX-28D®

MLX-16DP®

MLX-10D®

MLX-10DP®†

MLX-10®

MLX-5D®

MLX-5®

### Adjuncts

Headset

Hearing-impaired handset

Noisy environment

Multi-Function Module (MFM) (Not supported on the MLX-5 and MLX-5D) Extension No. \_\_\_\_\_

FAX machine

Answering machine

Data terminal

Alert device, type \_\_\_\_\_

Other \_\_\_\_\_

Off Premises

Passageway

### Personal Lines

\_\_\_\_\_

\_\_\_\_\_

**Shared Extension No.** \_\_\_\_\_

Ring

No Ring

### Auto Line Selection

\_\_\_\_\_

\_\_\_\_\_

### **Centralized Programming Requirements\*\***

Assign Service Observing Button

### Optional Features

#### **Abbreviated Ring**

Off

On ♦

#### **Auto Callback**

Off ♦

On

#### **Call Waiting**

Off ♦

On

#### **Voice-Announced Calls**

On ♦

Off

On Idle Only

#### **Coverage Inside**

Off

On ♦

#### **Cover Ring Delay**

##### **Primary Cover Ring Delay**

2 Rings ♦

\_\_\_\_\_rings (1-6)

##### **Secondary Cover Ring Delay**

2 Rings ♦

\_\_\_\_\_rings (1-6)

##### **Group Coverage Ring Delay**

3 Rings ♦

\_\_\_\_\_rings (1-9)

#### **Computer Telephony Integrated Client PC**

Yes

No ♦

#### **Call Screening**

Off ♦

On

Password (Account Code) \_\_\_\_\_

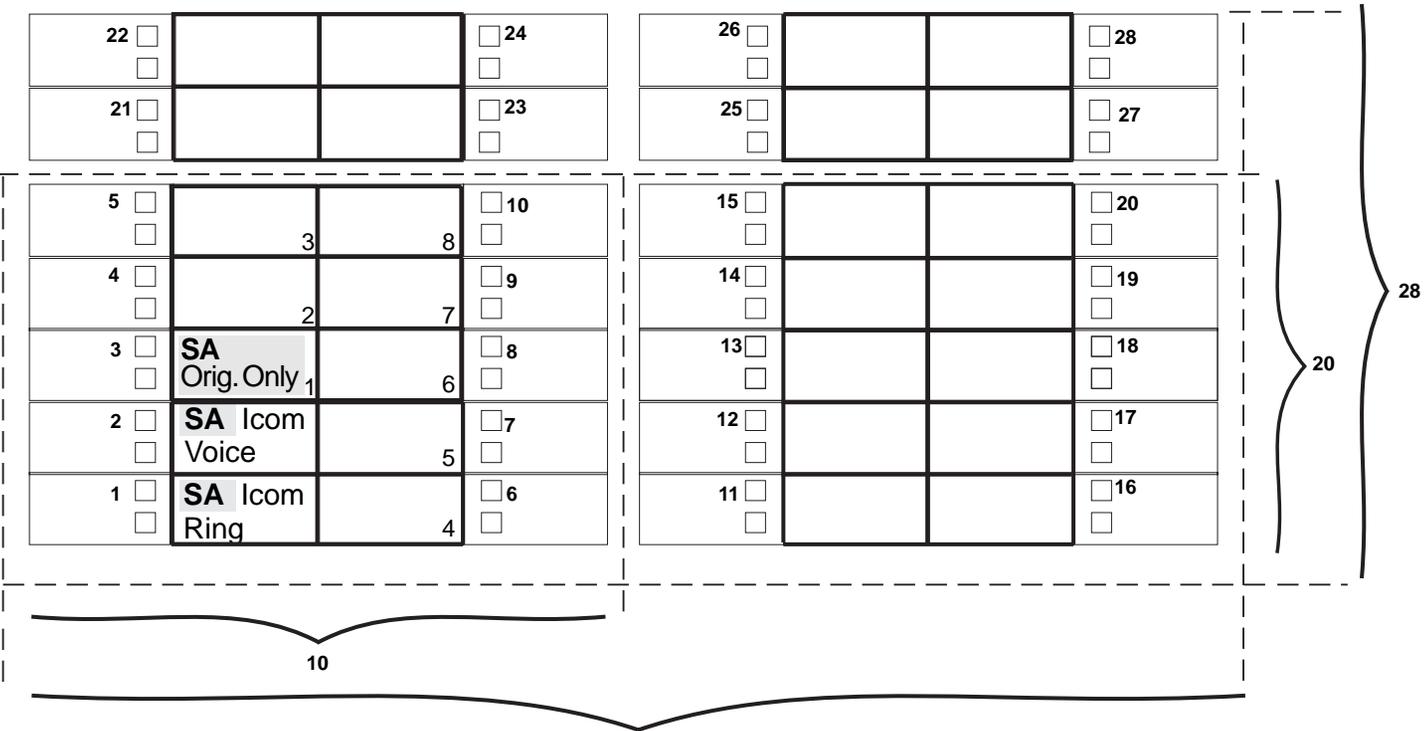
♦ Factory Setting

\* The system capacity for Personal Directories is decreased by one whenever an MLX-20L telephone is connected to an MLX port.

† This telephone is the same as the MLX-10D except it has an adjunct plug in the back for connection to a PC when programming telephone features using CTI software application. This telephone is available with Release 2.1 and later.

\*\* Refer to Form 11 to assign as a Service Observer.

**Button Diagram**  
 See Master Extension



**Note:** Lines 1 through 8 only default on a telephone when the system is in Key mode.

**Button Diagram**

See Master Extension

 13 			 16 
 12 			 15 
 11 			 14 
 5 			 10 
 4 			 9 
 3 	<b>SA</b> Orig. Only		 8 
 2 	<b>SA</b> Icom Voice		 7 
 1 	<b>SA</b> Icom Ring		 6 

Button Diagram for MLX-16DP Telephone



**MFM Adjunct: MLX Telephone**

Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Connected to MLX extension No. \_\_\_\_\_

Copied from Master Extension No. \_\_\_\_\_

**Adjuncts**

- FAX machine
- Answering machine
  - Used as delay announcement device for calling groups  
Ext. No. \_\_\_\_\_
- Data terminal
- Alert device, type \_\_\_\_\_
  - Used as Calls-in-Queue Alarm device for calling groups  
Ext. No. \_\_\_\_\_
- Other \_\_\_\_\_

**Button Diagram**

- See Master Extension

Line 3	5	Line 8	10
Line 2	4	Line 7	9
Line 1 SA Orig. Only	3	Line 6	8
SA Icom Voice	2	Line 5	7
SA Icom Ring	1	Line 4	6

**Note:** Lines 1 through 8 only default on a telephone when the system is in Key mode.

**Centralized Programming Requirements**

- Disable Voice Announce – change button 2 assignment to System Access Originate Only and remove button 3 assignment
- Enable Ringing/Idle Line Preference
- Change Automatic Line Selection order to: (1) System Access Ring, (2) System Access Originate Only, (3) outside trunks assigned to buttons 3 through 10
- Set Ringing Option to No Ring for each personal line on which calls are **not** received

**Auto Line Selection**

\_\_\_\_\_

\_\_\_\_\_

**Optional Features**

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1–6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1–6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1–9)

♦ Factory Setting



## Tip/Ring Equipment

(Make a copy of this form for each device.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

**Type**

- Single-line telephone
- Answering machine
  - Used as delay announcement device for calling groups  
Ext. No. \_\_\_\_\_
- FAX machine
- PARTNER Doorphone (008 OPT or 016 ETR module)
- Other \_\_\_\_\_

**Adjuncts**

- Speakerphone
- Hearing-impaired handset
- Noisy environment
- Off Premises via OPRE

**Auto Line Selection**

\_\_\_\_\_

**Button Diagram**

Line 3	5	Line 8	10
Line 2	4	Line 7	9
Line 1 SA Orig. Only	3	Line 6	8
SA Icom Ring	2	Line 5	7
SA Icom Ring	1	Line 4	6

**Optional Features**

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**HotLine**

- Off ♦
- On  
Tel. No. or Ext. No. \_\_\_\_\_

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1-9)

**Centralized Programming Requirements**

- Remove all but one SA button to disable features such as Transfer and Conference.

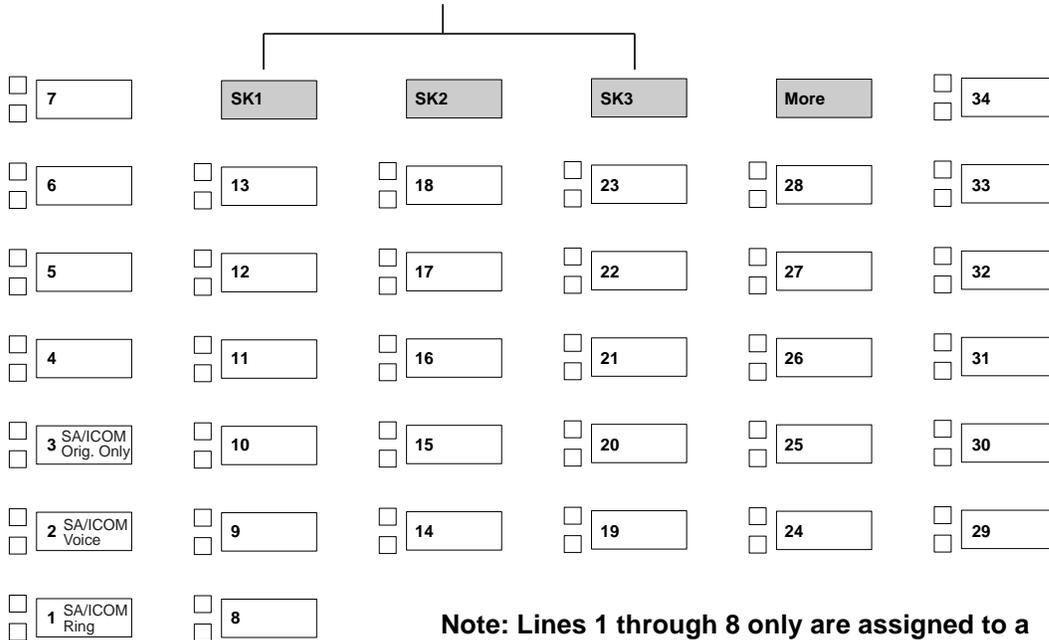
♦ Factory Setting





**ETR-34D Button Diagram**

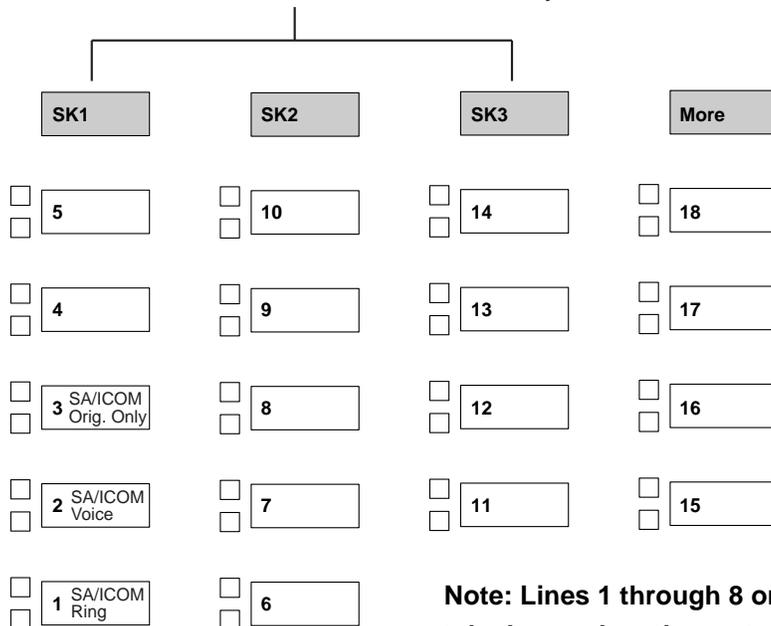
These buttons not used in MERLIN MAGIX system.



**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

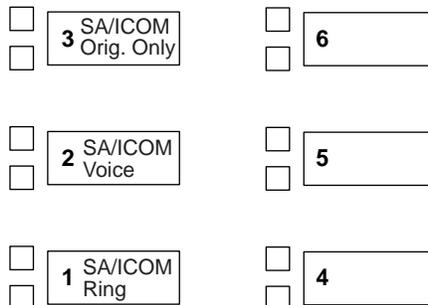
**ETR-18/18D Button Diagram**

These buttons not used in MERLIN MAGIX system.



**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**ETR-6 Button Diagram**





**Form 4h**

**ETR Telephone**

(Make a copy of this form for each telephone.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

**Telephone Model**

- ETR-34D®
- ETR-18D®
- ETR-18®
- ETR-6®

**Adjuncts**

Off Premises via OPRE

**Personal Lines**

\_\_\_\_\_  
\_\_\_\_\_

**Shared Extension No.** \_\_\_\_\_

- Ring
- No Ring

**Auto Line Selection**

\_\_\_\_\_  
\_\_\_\_\_

**Optional Features**

**Abbreviated Ring**

- Off
- On ♦

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**Computer Telephony Integrated Client PC**

- Yes
- No♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1-9)

**Call Screening**

- Off ♦
- On

Password (Account Code) \_\_\_\_\_

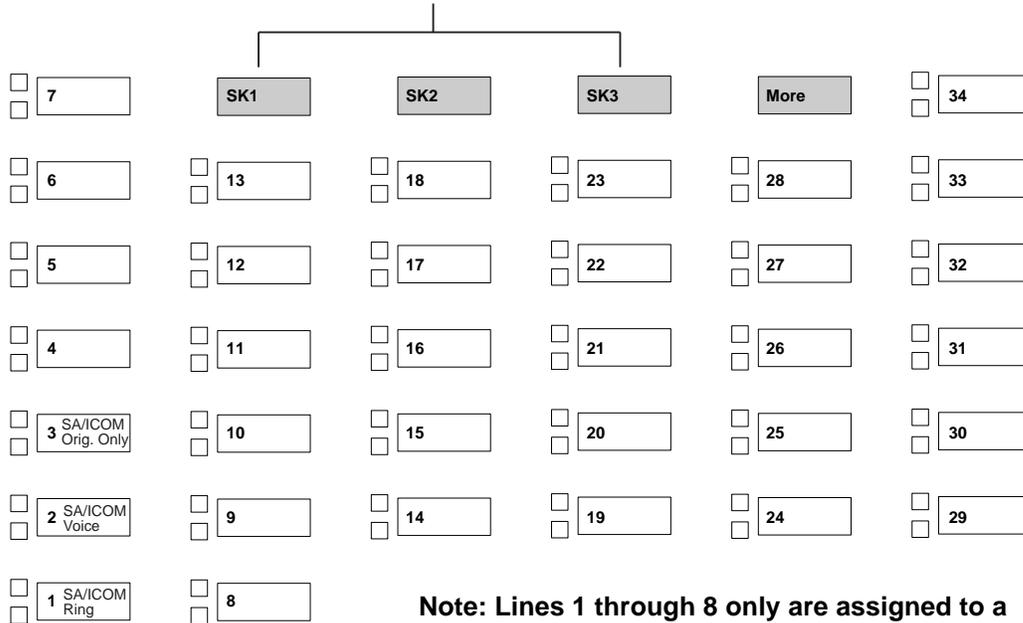
♦ Factory Setting

**Form 4h** (Continued)

**ETR-34D Button Diagram**

See Master Extension

These buttons not used in MERLIN MAGIX system.

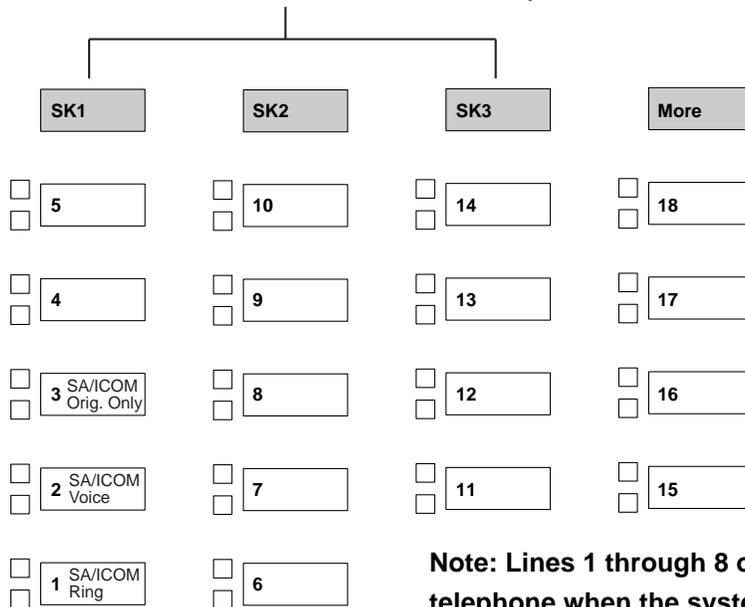


**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**ETR-18/18D Button Diagram**

See Master Extension

These buttons not used in MERLIN MAGIX system.



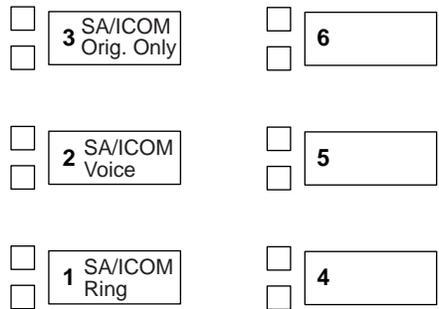
**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**Form 4h** (Continued)

---

**ETR-6 Button Diagram**

See Master Extension

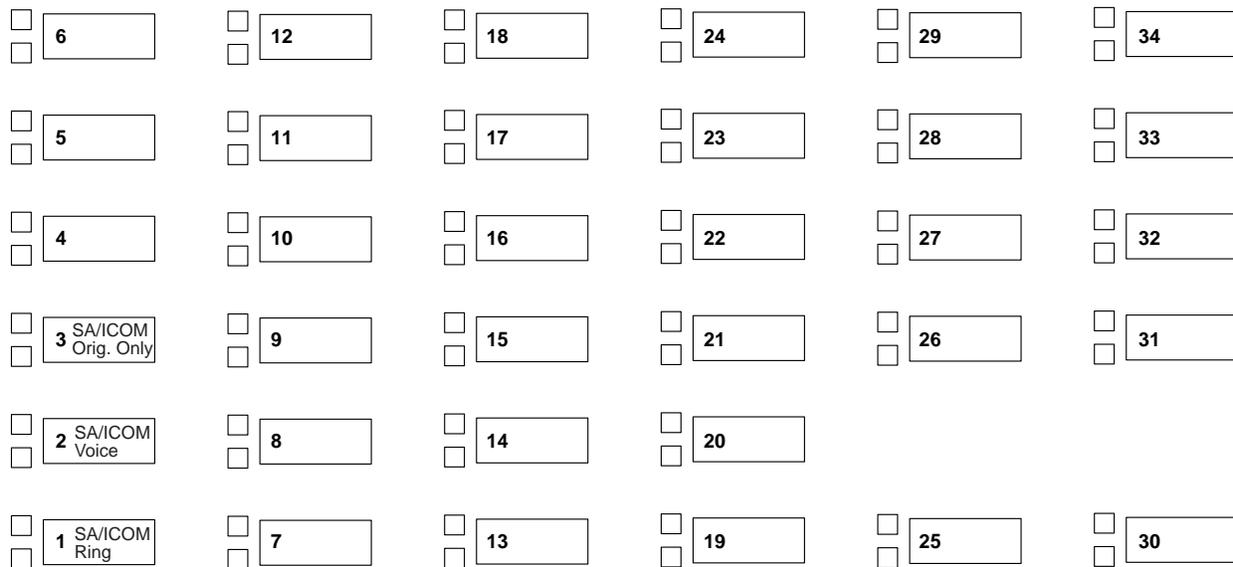






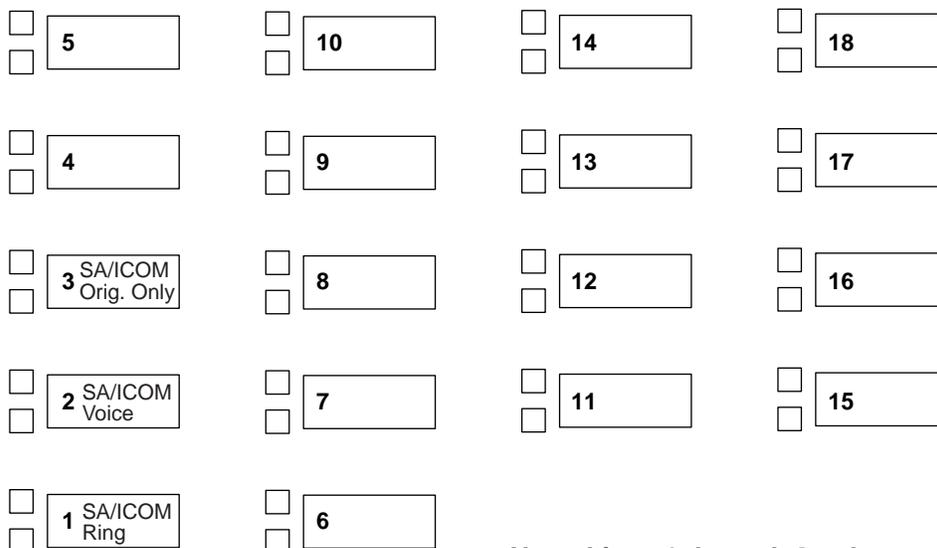
**Form 4i** (Continued)

**MLS-34D Button Diagram**



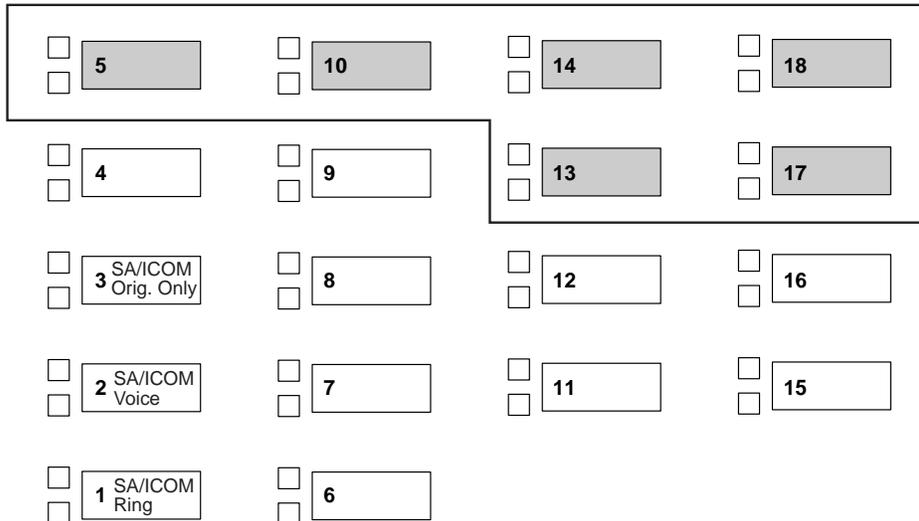
**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**MLS-18D Button Diagram**



**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

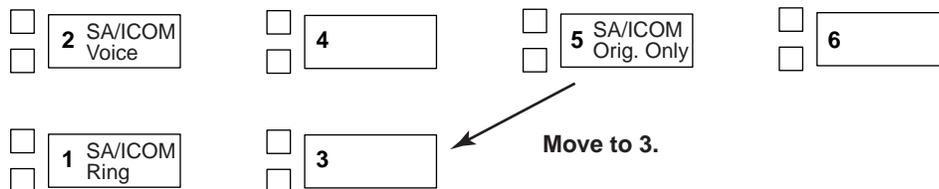
**MLS-12/12D Button Diagram**



Do not use these buttons for any facilities or features that require LEDs.

**Note:** Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.

**MLS-6 Button Diagram**





**Form 4j**

**MLS Telephone\***

(Make a copy of this form for each telephone.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

**Telephone Model**

- MLS-34D®
- MLS-18D®
- MLS-12D®
- MLS-12
- MLS-6®
- TransTalk®
- Business Cordless 905®

**Adjuncts**

- Off Premises via OPRE

**Personal Lines**

\_\_\_\_\_  
\_\_\_\_\_

**Shared Extension No.** \_\_\_\_\_

- Ring
- No Ring

**Auto Line Selection**

\_\_\_\_\_  
\_\_\_\_\_

**Optional Features**

**Abbreviated Ring**

- Off
- On ♦

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**Computer Telephony Integrated Client PC**

- Yes
- No♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1-9)

**Call Screening**

- Off ♦
- On

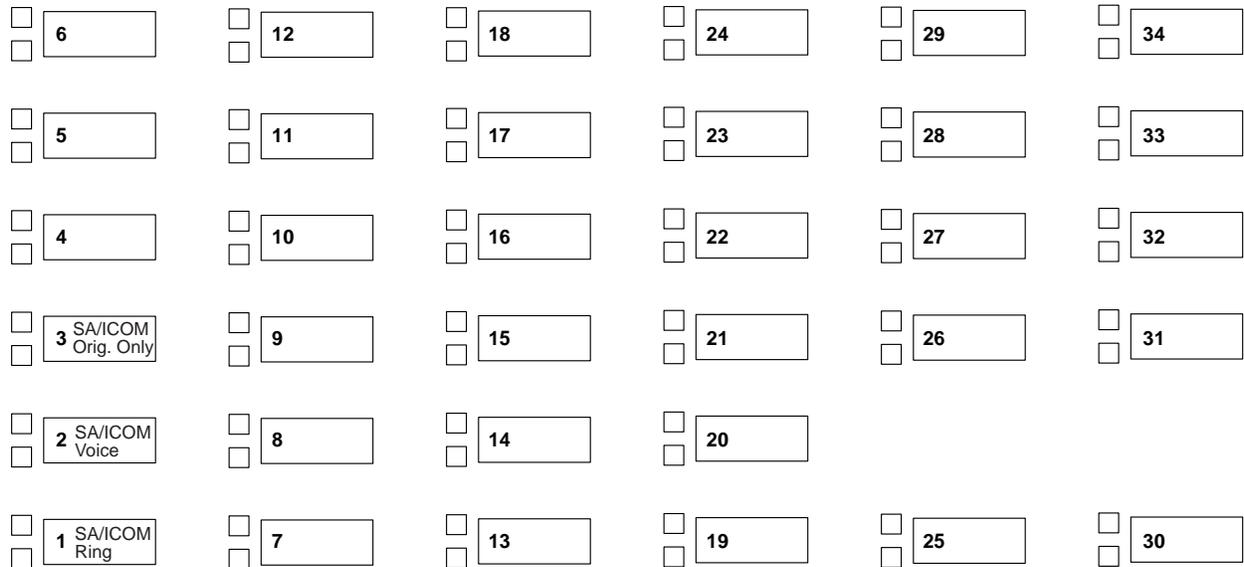
Password (Account Code) \_\_\_\_\_

♦ Factory Setting  
\* No longer available

**Form 4j** (Continued)

**MLS-34D Button Diagram**

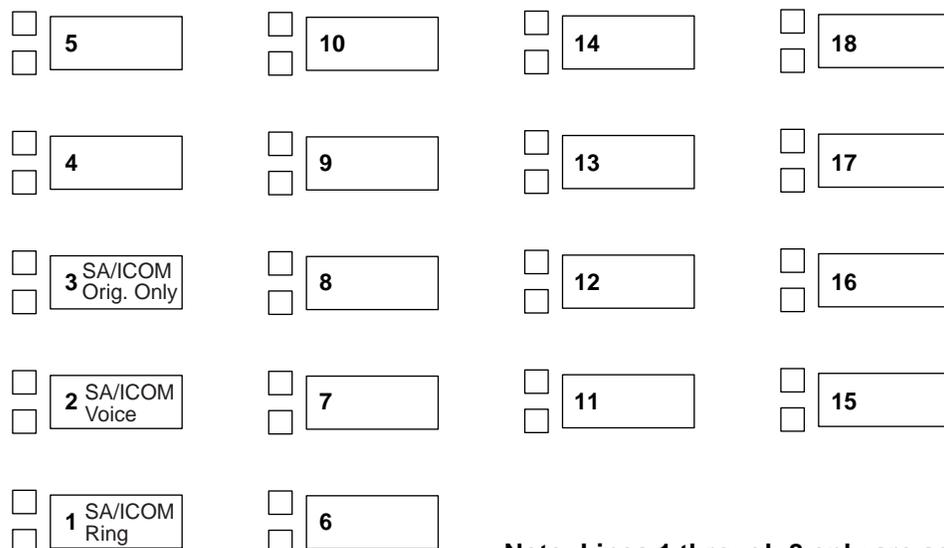
See Master Extension



**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**MLS-18D Button Diagram**

See Master Extension

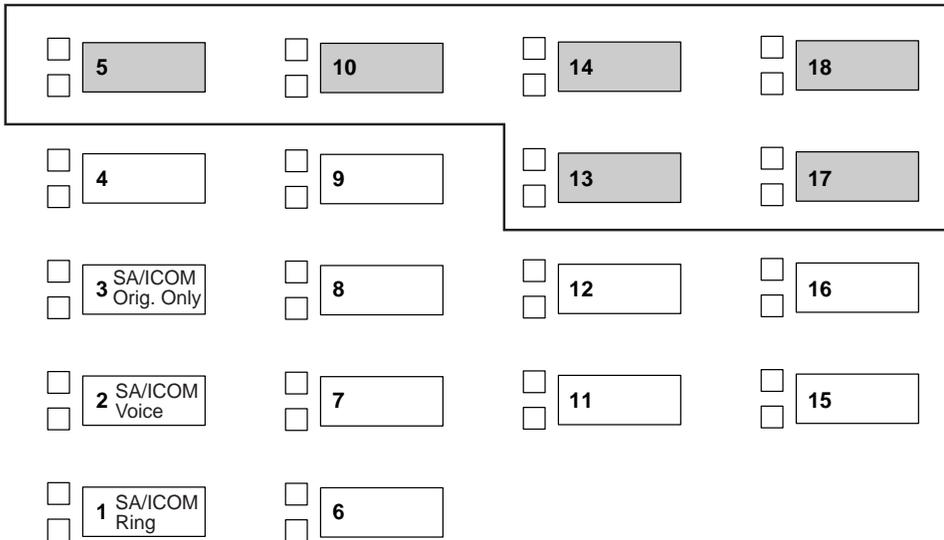


**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**Form 4j** (Continued)

**MLS-12/12D Button Diagram**

See Master Extension

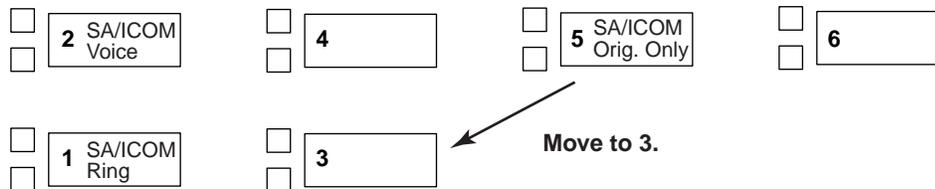


Do not use these buttons for any facilities or features that require LEDs.

**Note:** Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.

**MLS-6 Button Diagram**

See Master Extension





## 4400/4400D Telephone

(Make a copy of this form for each device.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

### Telephone

- 4400
- 4400D

### **Auto Line Selection**

\_\_\_\_\_  
\_\_\_\_\_

### Optional Features

#### **Auto Callback**

- Off ♦
- On

#### **Call Waiting**

- Off ♦
- On

#### **Coverage Inside**

- Off
- On ♦

### Cover Ring Delay

#### **Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_\_rings (1-6)

#### **Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_\_rings (1-6)

#### **Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_\_rings (1-9)

♦ *Factory Setting*





**Form 4I** (Continued)

**4424LD+, 4424D+, and 4412D+ Button Diagram**

<input type="checkbox"/> 21 <input type="checkbox"/>			<input type="checkbox"/> 23 <input type="checkbox"/>	<input type="checkbox"/> 25 <input type="checkbox"/>			<input type="checkbox"/> 27 <input type="checkbox"/>
<input type="checkbox"/> 5 <input type="checkbox"/>			<input type="checkbox"/> 10 <input type="checkbox"/>	<input type="checkbox"/> 15 <input type="checkbox"/>			<input type="checkbox"/> 20 <input type="checkbox"/>
<input type="checkbox"/> 4 <input type="checkbox"/>			<input type="checkbox"/> 9 <input type="checkbox"/>	<input type="checkbox"/> 14 <input type="checkbox"/>			<input type="checkbox"/> 19 <input type="checkbox"/>
<input type="checkbox"/> 3 <input type="checkbox"/>	SA/ICOM Orig. Only		<input type="checkbox"/> 8 <input type="checkbox"/>	<input type="checkbox"/> 13 <input type="checkbox"/>			<input type="checkbox"/> 18 <input type="checkbox"/>
<input type="checkbox"/> 2 <input type="checkbox"/>	SA/ICOM Voice		<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 12 <input type="checkbox"/>			<input type="checkbox"/> 17 <input type="checkbox"/>
<input type="checkbox"/> 1 <input type="checkbox"/>	SA/ICOM Ring		<input type="checkbox"/> 6 <input type="checkbox"/>	<input type="checkbox"/> 11 <input type="checkbox"/>			<input type="checkbox"/> 16 <input type="checkbox"/>

**Note:** Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.

**4406D+ Button Diagram**

<input type="checkbox"/> 3 <input type="checkbox"/>	SA/ICOM Orig. Only		<input type="checkbox"/> 6 <input type="checkbox"/>
<input type="checkbox"/> 2 <input type="checkbox"/>	SA/ICOM Voice		<input type="checkbox"/> 5 <input type="checkbox"/>
<input type="checkbox"/> 1 <input type="checkbox"/>	SA/ICOM Ring		<input type="checkbox"/> 4 <input type="checkbox"/>

**Form 4m**

**Multiline 4400-Series Telephone**

(Make a copy of this form for each telephone.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

Wall Mount

**Telephone Model**

4424LD+™

4424D+™

4412D+™

4406D+™

**Adjuncts**

Headset

Hearing-impaired handset

Noisy environment

Off Premises

**Optional Features**

**Abbreviated Ring**

Off

On ♦

**Auto Callback**

Off ♦

On

**Call Waiting**

Off ♦

On

**Voice-Announced Calls**

On ♦

Off

**Coverage Inside**

Off

On ♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

2 Rings ♦

\_\_\_ rings (1-6)

**Secondary Cover Ring Delay**

2 Rings ♦

\_\_\_ rings (1-6)

**Group Coverage Ring Delay**

3 Rings ♦

\_\_\_ rings (1-9)

**Computer Telephony Integrated Client PC**

Yes

No♦

**Call Screening**

Off ♦

On

Password (Account Code) \_\_\_\_\_

**Personal Lines**

\_\_\_\_\_

\_\_\_\_\_

**Shared Extension No.** \_\_\_\_\_

Ring

No Ring

**Auto Line Selection**

\_\_\_\_\_

\_\_\_\_\_

**Centralized Programming Requirements\***

Assign Service Observing Button

♦ Factory Setting

\* Refer to Form 11 to assign as a Service Observer.

**Form 4m** (Continued)

**4424LD+, 4424D+, and 4412D+ Button Diagram**

See Master Extension

<input type="checkbox"/> 21 <input type="checkbox"/>			<input type="checkbox"/> 23 <input type="checkbox"/>	<input type="checkbox"/> 25 <input type="checkbox"/>			<input type="checkbox"/> 27 <input type="checkbox"/>
<input type="checkbox"/> 5 <input type="checkbox"/>			<input type="checkbox"/> 10 <input type="checkbox"/>	<input type="checkbox"/> 15 <input type="checkbox"/>			<input type="checkbox"/> 20 <input type="checkbox"/>
<input type="checkbox"/> 4 <input type="checkbox"/>			<input type="checkbox"/> 9 <input type="checkbox"/>	<input type="checkbox"/> 14 <input type="checkbox"/>			<input type="checkbox"/> 19 <input type="checkbox"/>
<input type="checkbox"/> 3 <input type="checkbox"/>	SA/ICOM Orig. Only		<input type="checkbox"/> 8 <input type="checkbox"/>	<input type="checkbox"/> 13 <input type="checkbox"/>			<input type="checkbox"/> 18 <input type="checkbox"/>
<input type="checkbox"/> 2 <input type="checkbox"/>	SA/ICOM Voice		<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 12 <input type="checkbox"/>			<input type="checkbox"/> 17 <input type="checkbox"/>
<input type="checkbox"/> 1 <input type="checkbox"/>	SA/ICOM Ring		<input type="checkbox"/> 6 <input type="checkbox"/>	<input type="checkbox"/> 11 <input type="checkbox"/>			<input type="checkbox"/> 16 <input type="checkbox"/>

**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**4406D+ Button Diagram**

See Master Extension

<input type="checkbox"/> 3 <input type="checkbox"/>	SA/ICOM Orig. Only		<input type="checkbox"/> 6 <input type="checkbox"/>
<input type="checkbox"/> 2 <input type="checkbox"/>	SA/ICOM Voice		<input type="checkbox"/> 5 <input type="checkbox"/>
<input type="checkbox"/> 1 <input type="checkbox"/>	SA/ICOM Ring		<input type="checkbox"/> 4 <input type="checkbox"/>



**TransTalk 9031/9040 Button Diagrams**

**Hybrid/PBX Mode**

Blank 5	Blank 6	Blank 7	Blank 8
SA OO 1	Blank 2	Blank 3	Blank 4
SA Ring A	SA Voice B	Blank C	Drop D

**Key Mode**

Line 5 5	Line 6 6	Line 7 7	Line 8 8
Line 1 1	Line 2 2	Line 3 3	Line 4 4
ICOM Ring A	ICOM Voice B	Blank C	Blank D

**Note: Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.**

**Business Cordless 905 Button Diagrams**

**Hybrid/PBX Mode**

SA Ring 1	SA Voice 2	SA OO 3	Blank 4	Drop 5
-----------------	------------------	---------------	------------	-----------

**Key Mode**

ICOM Ring 1	ICOM Voice 2	Blank 3	Blank 4	Blank 5
-------------------	--------------------	------------	------------	------------

**Form 4o**

**Wireless Telephone**

(Make a copy of this form for each telephone.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

**Telephone Model**

- TransTalk 9031
- TransTalk 9040
- Business Cordless 905

**Adjuncts**

- Headset

**Personal Lines**

\_\_\_\_\_  
\_\_\_\_\_

**Shared Extension No.** \_\_\_\_\_

- Ring
- No Ring

**Auto Line Selection**

\_\_\_\_\_  
\_\_\_\_\_

**Optional Features**

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_\_rings (1-6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_\_rings (1-6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_\_rings (1-9)

**Computer Telephony Integrated Client PC**

- Yes
- No♦

♦ *Factory Setting*

**Form 4o** (Continued)

**TransTalk 9031/9040 Button Diagrams**

See Master Extension

**Hybrid/PBX Mode**

Blank	Blank	Blank	Blank
5	6	7	8
SA OO 1	Blank 2	Blank 3	Blank 4
SA Ring A	SA Voice B	Blank C	Drop D

**Key Mode**

Line 5	Line 6	Line 7	Line 8
5	6	7	8
Line 1	Line 2	Line 3	Line 4
1	2	3	4
ICOM Ring A	ICOM Voice B	Blank C	Blank D

**Note:** Lines 1 through 8 only are assigned to a telephone when the system is in Key mode.

**Business Cordless 905 Button Diagrams**

See Master Extension

**Hybrid/PBX Mode**

SA Ring 1	SA Voice 2	SA OO 3	Blank 4	Drop 5
-----------------	------------------	---------------	------------	-----------

**Key Mode**

ICOM Ring 1	ICOM Voice 2	Blank 3	Blank 4	Blank 5
-------------------	--------------------	------------	------------	------------

**Direct-Line Console (DLC): Analog**

**Discontinued**

**Discontinued**

## Direct-Line Console (DLC)

(Make a copy of this form for each console.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Copied from Master Ext. No. \_\_\_\_\_

### **Console Model**

- 4424LD+™
- 4424D+™
- MLX-20L®
- MLX-28D®

### **Adjuncts**

- Direct Station Selector  
Number (1 or 2) \_\_\_\_\_
- Multi-Function Module (MFM) Extension No.\*  
\_\_\_\_\_
  - FAX machine
  - Answering machine
  - Data terminal
  - Alert device  
type \_\_\_\_\_
  - Other \_\_\_\_\_
- Headset
- Hearing-impaired handset
- Noisy environment
- CTI PC

### **Personal Lines**

\_\_\_\_\_  
\_\_\_\_\_

### **Auto Line Selection**

\_\_\_\_\_  
\_\_\_\_\_

### **Optional Features**

#### **Abbreviated Ring**

- Off
- On ♦

#### **Auto Callback**

- Off ♦
- On

### **Call Waiting**

- Off ♦
- On

### **Voice-Announced Calls**

- On ♦
- Off

### **Coverage Inside**

- Off
- On ♦

### **Cover Ring Delay**

#### **Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

#### **Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1-6)

#### **Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1-9)

### **Call Screening**

- Off ♦
- On

Password (Account Code) \_\_\_\_\_

♦ Factory Setting

\* MLX DLC only.

**Form 5b** (Continued)

**4424LD+ or 4424D+ DLC Button Diagram**

See Master Extension

<input type="checkbox"/> 21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 23
<input type="checkbox"/> 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 10
<input type="checkbox"/> 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 9
<input type="checkbox"/> 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 8
<input type="checkbox"/> 2	<input type="checkbox"/> SA Icom Voice	<input type="checkbox"/>	<input type="checkbox"/> 7
<input type="checkbox"/> 1	<input type="checkbox"/> SA Icom Ring	<input type="checkbox"/>	<input type="checkbox"/> 6

<input type="checkbox"/> 25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 27
<input type="checkbox"/> 15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 20
<input type="checkbox"/> 14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 19
<input type="checkbox"/> 13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 18
<input type="checkbox"/> 12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 17
<input type="checkbox"/> 11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 16

**MLX-20L or MLX-28D DLC Button Diagram**

See Master Extension

<input type="checkbox"/> 22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 2
<input type="checkbox"/> 21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 2

<input type="checkbox"/> 26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 28
<input type="checkbox"/> 25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 27

<input type="checkbox"/> 5	<input type="checkbox"/>	3	8	<input type="checkbox"/> 1
<input type="checkbox"/> 4	<input type="checkbox"/>	2	7	<input type="checkbox"/>
<input type="checkbox"/> 3	<input type="checkbox"/>	1	6	<input type="checkbox"/>
<input type="checkbox"/> 2	<input type="checkbox"/> SA Icom Voice	<input type="checkbox"/>	5	<input type="checkbox"/>
<input type="checkbox"/> 1	<input type="checkbox"/> SA Icom Ring	<input type="checkbox"/>	4	<input type="checkbox"/>

<input type="checkbox"/> 15	<input type="checkbox"/>	13	18	<input type="checkbox"/> 20
<input type="checkbox"/> 14	<input type="checkbox"/>	12	17	<input type="checkbox"/> 19
<input type="checkbox"/> 13	<input type="checkbox"/>	11	16	<input type="checkbox"/> 18
<input type="checkbox"/> 12	<input type="checkbox"/>	10	15	<input type="checkbox"/> 17
<input type="checkbox"/> 11	<input type="checkbox"/>	9	14	<input type="checkbox"/> 16

20

28

Assignment of outside trunks to console buttons begins with number 3.

### MFM Adjunct: MLX-20L or MLX-28D DLC

Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

Connected to MLX extension No. \_\_\_\_\_

Copied from Master Extension No. \_\_\_\_\_

**Adjuncts**

- FAX machine
- Answering machine
  - Used as delay announcement device for calling groups  
Ext. No. \_\_\_\_\_  
\_\_\_\_\_
- Data terminal
- Alert device, type \_\_\_\_\_
  - Use as Calls-in-Queue Alarm device for calling groups  
Ext. No. \_\_\_\_\_
- Other \_\_\_\_\_

**Button Diagram**

- See Master Extensions

Line 3	Line 8
Line 2	Line 7
Line 1 SA Orig. Only	Line 6
SA Icom Voice	Line 5
SA Icom Ring	Line 4

**Note:** Lines 1 through 8 only default on a telephone when the system is in Key mode.

**Centralized Programming Requirements**

- Disable Voice Announce – change button 2 assignment to System Access Originate Only and remove button 3 assignment
- Enable Ringing/Idle Line Preference
- Change Automatic Line Selection order to: (1) System Access Ring, (2) System Access Originate Only, (3) outside trunks assigned to buttons 3 through 10
- Set Ringing Option to No Ring for each personal line on which calls are **not** received

**Auto Line Selection**

\_\_\_\_\_

\_\_\_\_\_

**Optional Features**

**Auto Callback**

- Off ♦
- On

**Call Waiting**

- Off ♦
- On

**Coverage Inside**

- Off
- On ♦

**Cover Ring Delay**

**Primary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1–6)

**Secondary Cover Ring Delay**

- 2 Rings ♦
- \_\_\_rings (1–6)

**Group Coverage Ring Delay**

- 3 Rings ♦
- \_\_\_rings (1–9)

♦ Factory Setting



**Queued Call Console (QCC)\***

(Make a copy of this form for each console.)

Logical ID \_\_\_\_\_ Extension No. \_\_\_\_\_ Person or Location \_\_\_\_\_

**Adjuncts**

- DirectStationSelector
- Number(1or2)\_\_\_\_\_
- Headset
- Hearing-impairedhandset
- Noisyenvironment

**Message Center Operator**

- No
- Yes

\* Hybrid/PBX mode only.

**Form 5d** (Continued)

**4424LD+ QCC Button Diagram**

<input type="checkbox"/>	<input type="checkbox"/>	<i>Feature</i>	<i>HFAI</i>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Drop</i>	<i>Inspect</i>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<b>G</b> <i>Call 5</i>	<b>H</b> <i>Position Busy</i>	<input type="checkbox"/>	<input type="checkbox"/>	<b>I</b> <i>Alarm</i>	<b>J</b> <i>Forced Release</i>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<b>K</b> <i>Call 4</i>	<b>L</b> <i>Send/Remove Message</i>	<input type="checkbox"/>	<input type="checkbox"/>	<b>M</b> <i>Night Service</i>	<b>N</b> <i>Pool Status</i>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<b>O</b> <i>Call 3</i>	<b>P</b> <i>Loudspeaker Page</i>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Q</b> <i>Headset Status</i>	<b>R</b> <i>Headset Auto Ans</i>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<b>S</b> <i>Call 2</i>	<b>T</b> <i>Source</i>	<input type="checkbox"/>	<input type="checkbox"/>	<b>U</b> <i>Destination</i>	<b>V</b> <i>Join</i>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<b>W</b> <i>Call 1</i>	<b>X</b> <i>Start</i>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Y</b> <i>Release</i>	<b>Z</b> <i>Cancel</i>	<input type="checkbox"/>	<input type="checkbox"/>

**MLX-20L QCC Button Diagram**

5	<input type="checkbox"/>	<b>G</b> CALL 5/VA	<b>H</b> POSITION BUSY	<input type="checkbox"/>	10	<input type="checkbox"/>	<b>I</b> ALARM	<b>J</b> FORCED RELEASE	<input type="checkbox"/>	20
4	<input type="checkbox"/>	<b>K</b> CALL 4	<b>L</b> SEND/REMOVE MSG	<input type="checkbox"/>	9	<input type="checkbox"/>	<b>M</b> NIGHT SERVICE	<b>N</b> POOL STATUS	<input type="checkbox"/>	19
3	<input type="checkbox"/>	<b>O</b> CALL 3	<b>P</b> HEADSET MUTE	<input type="checkbox"/>	8	<input type="checkbox"/>	<b>Q</b> HEADSET STATUS	<b>R</b> HEADSET AUTO ANSWER	<input type="checkbox"/>	18
2	<input type="checkbox"/>	<b>S</b> CALL 2	<b>T</b> SOURCE	<input type="checkbox"/>	7	<input type="checkbox"/>	<b>U</b> DESTINATION	<b>V</b> JOIN	<input type="checkbox"/>	17
1	<input type="checkbox"/>	<b>W</b> CALL 1	<b>X</b> START	<input type="checkbox"/>	6	<input type="checkbox"/>	<b>Y</b> RELEASE	<b>Z</b> CANCEL	<input type="checkbox"/>	16

## Optional Operator Features

### Direct-Line Console

**Operator Hold Timer**

- 60 seconds ♦
- \_\_\_\_\_ seconds (10–255)

**DLC Automatic Hold**

- Disable ♦
- Enable

### Queued Call Console\*

**Hold Return**

- Remain on hold ♦
- Return to queue

**Message Center**

- No
- Yes, Operator Extension No. \_\_\_\_\_

**Automatic Hold or Release**

- Automatic Release ♦
- Automatic Hold

**Extended Call Completion**

- Automatic completion ♦
- Manual completion

**Calls-in-Queue Alert**

- Disable ♦
- Enable, Operator Extension No(s).  
 \_\_\_\_\_

**Return Ring**

- 4 rings ♦
- \_\_\_\_\_ rings (1–15)

**Queue Over Threshold**

- 0 calls ♦ (operators not notified when calls are in queue)
- \_\_\_\_\_ calls (1–99)

**Position Busy Backup**

- No ♦
- Yes, Extension no. of calling group backup \_\_\_\_\_

**Elevate Priority**

- 0 seconds ♦ (calls are not automatically reprioritized)
- \_\_\_\_\_ seconds (5–30)

**Operator Hold Timer**

- 60 seconds ♦
- \_\_\_\_\_ seconds (10–255)

**Voice Announce**

- Disable ♦
- Enable

### Direct Station Selector

**Page Buttons**

Page Button	1	2	3
Beginning extension for range			

*Enter first extension number for range of 50 (1 DSS) or 100 (2 DSSs) extensions for each **Page** button.*

### **Call Park Codes (See Form 2d)**

Factory-Set Extension No.	Renumber to	Factory-Set Extension No.	Renumber to
881		885	
882		886	
883		887	
884		888	

♦ *Factory Setting*

\* *Hybrid/PBX mode only*

**Call Types\***

<b>Call Types</b>	<b>QCC Operator to Receive Calls</b>	<b>QCC Queue Priority Level (4◆)</b>
Dial 0		
Call Follow/Forward	N/A	
Unassigned DID		
Listed Directory Number		
QCC Extension	N/A	
Returning		

**Group Coverage Calls**

<b>Group No.</b>	<b>QCC Operator to Receive Calls</b>	<b>QCC Queue Priority Level (4◆)</b>	<b>Group No.</b>	<b>QCC Operator to Receive Calls</b>	<b>QCC Queue Priority Level (4◆)</b>
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

◆ Factory Setting  
 \* Hybrid/PBX mode only





**Principal User of Personal Line**

Factory-Set Trunk No.	Extension No.						
801		821		841		861	
802		822		842		862	
803		823		843		863	
804		824		844		864	
805		825		845		865	
806		826		846		866	
807		827		847		867	
808		828		848		868	
809		829		849		869	
810		830		850		870	
811		831		851		871	
812		832		852		872	
813		833		853		873	
814		834		854		874	
815		835		855		875	
816		836		856		876	
817		837		857		877	
818		838		858		878	
819		839		859		879	
820		840		860		880	

Note: Lines must be assigned to the principal user's extension before the principal users can be programmed.  
 See Form 2c, page1 for telephone numbers and extension numbers assigned to trunks.



**Message-Waiting Receivers**

**System Notification Threshold (0-30 seconds)** \_\_\_\_\_  
(factory setting is 10 seconds)

	Fax Machine Extension No.	Receivers			
		Ext. No.	Ext. No.	Ext. No.	Ext. No.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					























### Authorization Codes

Note: Keep this form in a secure place.

#### Account Code Verification List

Entry Number	Account Code
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Entry Number	Account Code
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	







### Call Pickup Groups

Maximum: 30 groups. (Make additional copies if more than 8 groups are assigned.)

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Group Number _____		
Group ID _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

### Group Paging

(See Form 2d)

<b>Group No. 1</b> Group ID _____ Factory-Set Ext. No. 793 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 2</b> Group ID _____ Factory-Set Ext. No. 794 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 3</b> Group ID _____ Factory-Set Ext. No. 795 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 4</b> Group ID _____ Factory-Set Ext. No. 796 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 5</b> Group ID _____ Factory-Set Ext. No. 797 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 6</b> Group ID _____ Factory-Set Ext. No. 798 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Group No. 7</b> Page All Factory-Set Ext. No. 799 Renumber to _____
---







Group Number \_\_\_\_\_

Group ID \_\_\_\_\_

Ext. No. \_\_\_\_\_

**Calling Group Options\***

**Hunt Type**

- Circular ♦
- Linear
- Most-Idle
- Group Ring

**Primary Delay Announcements**

- No ♦
- Yes, Extension No. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Secondary Delay Announcement**

- No ♦
- Yes, Extension No. \_\_\_\_\_  
Delay Interval \_\_\_\_\_ (0♦-900 sec.)
  - Disabled ♦
  - Enabled

**Message-Waiting Receiver**

- No ♦
- Yes, Extension No. \_\_\_\_\_

**First Calls-in-Queue Alarm Threshold**

- 1 call ♦
- \_\_\_\_\_ calls (2-99)

**Second Calls-in-Queue Alarm Threshold**

- 1 call ♦
- \_\_\_\_\_ calls (2-99)

**Third Calls-in-Queue Alarm Threshold**

- 1 call ♦
- \_\_\_\_\_ calls (2-99)

**External Alert for Calls-in-Queue Alarm**

- No ♦
- Yes, Extension No. \_\_\_\_\_

**Overflow Coverage**

- No ♦
- Yes, Calling Group No. \_\_\_\_\_
- Yes, QCC LDN (queue) Extension No. \_\_\_\_\_

**Overflow Threshold**

- 1 call ♦
- \_\_\_\_\_ calls (2-99)

**Overflow Threshold Time**

- 0 seconds ♦
- \_\_\_\_\_ seconds (1-900)

**Group Type**

- Auto Login
- Auto Logout ♦
- Integrated VMI†
- Generic VMI†

**Prompt-Based Overflow**

- Disabled ♦
- Enabled

**Queue Control**

- 99 calls ♦
- \_\_\_\_\_ calls (0-98)

**Priority Call Queuing**

- No ♦
- Yes
  - Home Group Priority Level \_\_\_\_\_  
(1-32; 16 is the factory setting.)
  - Support Group Extension No. \_\_\_\_\_  
(Support Group Priority Level) \_\_\_\_\_

**Agent ID Range**

Starting Agent ID \_\_\_\_\_  
(10-9999; 10 is the  
factory setting.)  
Ending Agent ID \_\_\_\_\_  
(11-9999; 9999 is the  
factory setting.)

\* If the system has AUDIX Voice Power/FAX Attendant System, you do not need to fill in this information. Settings will be automatically set by Integrated Administration to defaults assumed by the AUDIX Voice Power system (and not necessarily those listed on this form). Changing the assumed defaults could affect how the AUDIX Voice Power system works. If you change them, DO SO WITH CAUTION, and record the settings on this form. For more information, see the AUDIX Voice Power documentation.

† Any port programmed as a VMI port is, by default, restricted from making outgoing calls.

## System Features

### Transfer Options\*

#### **Return Time Interval†**

- 4 rings ♦
- 0 rings
- \_\_\_\_\_ rings (1–9)

#### **One-Touch Call Handling**

- One-Touch Transfer ♦
  - Manual Completion
  - Automatic Completion ♦
- One-Touch-Hold

#### **Transfer Audible**

- Music On Hold ♦
- Ringback

#### **Type of Transfer**

- Voice button
- Ring button ♦

#### **Camp-On Return Time**

- 90 seconds ♦
- \_\_\_\_\_ seconds (30–300)

#### **Call Park Return Time**

- 180 seconds ♦
- \_\_\_\_\_ seconds (30–300)

#### **Automatic Callback Interval**

- 3 rings ♦
- \_\_\_\_\_ rings (1–6)

#### **Extension Status**

- Hotel
  - Assign to operator positions

\_\_\_\_\_  
\_\_\_\_\_

- Group Calling/CMS ♦

### SMDR Options

#### **Call Report Format**

- Basic ♦
- ISDN

#### **Calls Reported (non-UDP)**

- Incoming and outgoing ♦
- Outgoing only

#### **Talk Time**

- Enabled
- Disabled ♦

#### **Call Length‡**

- 40 seconds ♦
- \_\_\_\_\_ seconds (0–255)

#### **Calls Reported (UDP)**

- Incoming and outgoing
- None ♦

#### **Inside Dial Tone**

- Inside ♦
- Outside

#### **Reminder Service Cancel**

- No
- Yes, \_\_\_\_\_ time of day

#### **Calls to Unassigned Extensions**

- QCC Queue \_\_\_\_\_ §
- Extension ♦, No. \_\_\_\_\_ (default is the primary operator extension)
- Calling Group, Extension No. \_\_\_\_\_

### Recall Timer

- 350 ms
- 450 ms ♦
- 650 ms
- 1 sec

### Rotary

- Delay ♦
- No Delay

### Automatic Daylight Savings Time

- Enable ♦
  - USA ADST ♦
  - Custom
- Disable

### Hot Dialpad

- Off ♦
- On

Note: If you use equipment that rebroadcasts music or other copyrighted material, you may be required to obtain a copyright license from, and pay license fees to, a third party such as the American Society of Composers, Artists, and Producers (ASCAP) or Broadcast Music Incorporated (BMI). Or you can purchase a Magic-on-Hold system, which does not require you to obtain such a license, from Lucent Technologies or an authorized representative.

♦ *Factory Setting*

\* *Transfer features (and any feature that requires more than one SA button) can be disabled on single-line telephones by removing all but one SA button via Centralized Programming.*

† *If the system has AUDIX Voice Power/FAX Attendant System, Integrated Administration will automatically set the Return Time Interval to "6."*

‡ *For systems where the majority of lines are PRI, the SMDR Call Length should be one second.*

§ *Hybrid/PBX mode only*











### Night Service: Options

Day	Start Time*	Stop Time*
Sunday (0)		
Monday (1)		
Tuesday (2)		
Wednesday (3)		
Thursday (4)		
Friday (5)		
Saturday (6)		

\* Hours and minutes in 24-hour (military) time

Note: Start time is the END of your business day.  
Stop time is the BEGINNING of your business day.

#### Coverage Control

- Enable
- Disable ◆

◆ Factory Setting



**Label Form: Posted Message**

Message No.	Default Label	Revised Message (16 characters maximum)
1	DO NOT DISTURB	(Cannot be changed)
2	OUT TO LUNCH	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
3	AT HOME	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
4	OUT SICK	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
5	IN A MEETING	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
6	IN CONFERENCE	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
7	WITH A CLIENT	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
8	WITH A CUSTOMER	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
9	AWAY FROM DESK	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
10	OUT ALL DAY	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
11	CUSTM MSG11	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
12	CUSTM MSG12	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
13	CUSTM MSG13	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
14	CUSTM MSG14	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
15	CUSTM MSG15	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
16	CUSTM MSG16	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
17	CUSTM MSG17	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
18	CUSTM MSG18	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
19	CUSTM MSG19	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
20	CUSTM MSG20	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _



### System Speed Dial

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ♦	No*
#600				
#601				
#602				
#603				
#604				
#605				
#606				
#607				
#608				
#609				
#610				
#611				
#612				
#613				
#614				
#615				
#616				
#617				
#618				
#619				
#620				
#621				

♦ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ♦	No*
#622				
#623				
#624				
#625				
#626				
#627				
#628				
#629				
#630				
#631				
#632				
#633				
#634				
#635				
#636				
#637				
#638				
#639				
#640				
#641				
#642				
#643				

♦ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.

### System Speed Dial

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ♦	No*
#644				
#645				
#646				
#647				
#648				
#649				
#650				
#651				
#652				
#653				
#654				
#655				
#656				
#657				
#658				
#659				
#660				
#661				
#662				
#663				
#664				
#665				

♦ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ♦	No*
#666				
#667				
#668				
#669				
#670				
#671				
#672				
#673				
#674				
#675				
#676				
#677				
#678				
#679				
#680				
#681				
#682				
#683				
#684				
#685				
#686				
#687				

♦ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.

### System Speed Dial

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ◆	No*
#688				
#689				
#690				
#691				
#692				
#693				
#694				
#695				
#696				
#697				
#698				
#699				
#700				
#701				
#702				
#703				
#704				
#705				
#706				
#707				
#708				
#709				

◆ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.

Dial Code	Name (11 characters maximum)	Telephone Number (40 digits maximum)	Display	
			Yes ♦	No*
#710				
#711				
#712				
#713				
#714				
#715				
#716				
#717				
#718				
#719				
#720				
#721				
#722				
#723				
#724				
#725				
#726				
#727				
#728				
#729				

♦ Factory Setting  
 \* If you select "No" display, this indicates a Marked System Speed Dial number which can override calling restrictions.



