Enterprise IP Solutions

# OfficeServ 7400

# Programming Guide

SAMSUNG

## Publication Information

Samsung Business Communications reserves the right without prior notice to revise information in this publication for any reason.

Samsung Business Communications also reserves the right without prior notice to make changes in design or components of equipment as engineering and manufacturing may warrant.

## Disclaimer

Samsung Business Communications is not responsible for errors or problems arising from customers not installing, programming or operating their Samsung systems as described in this manual.




2006/05/OS7400(PG) Version 1.1

SAMSUNG ELECTRONICS

# EU Declaration of Conformity

## Samsung Electronics Co., Ltd.

## 259 Gongdan-Dong, Gumi-City Kyungbuk, Korea, 730-030

(factory name, address)

declare under our sole responsibility that the product

## Digital Keyphone System model "OfficeServ 7400"

to which this declaration relates is in conformity with

**Low Voltage Directive 73/23/EEC**
**EMC Directive 89/336/EEC:92/31/EEC**

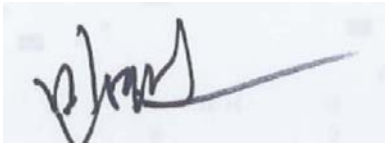
CE

By application of the following standards

**EN55022: 1998 +A1:2000+A2:2003**
**EN55024: 1998 +A1:2001+A2:2003**
**EN61000-3-2: 2000**
**EN61000-3-3: 1995+A1:2001**
**EN60950-1: 2001 (1st Edition) and/or EN60950-1: 2001**

***(Manufacturer)***

Samsung Electronics Co., Ltd
259, Gongdan-Dong, Gumi-City
Kyungbuk, Korea, 730-030



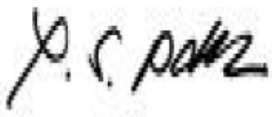
**2005-12-23** **YJ Min** **YoungJin Min / General Manager**

..... .....

(place and date of issue) (name and signature of authorized person)

***(Representative in the EU)***

Samsung Electronics Euro QA Lab.
Blackbushe Business Park
Saxony Way, Yateley, Hampshire
GU46 6GG, UK



**2005-12-23** **Peter Park** **Peter Park / Manager**

..... .....

(place and date of issue) (name and signature of authorized person)

## Intended Use

This telephone system is intended to provide the user with voice communication between the system extensions and connection to the public switched telephone network by digital or analogue links.

The telephone system may be provided with the ability to communicate with local computer networks to provide CTI functions and features. In this case, it is capable of passing information to the computer network via a specified link.

The system is powered by mains voltage and can optionally be powered by batteries. Details of all connections and power arrangements are provided in the instructions for use. It should not be used in any other way.

# INTRODUCTION

This is the programming guide for the OfficeServ 7400 keyphone system. You can use a digital phone to quickly and easily change the system setup through MMC (Man Machine Communication) programming. Each MMC is used for a specific purpose and is given its own number.

This guide describes each MMC program in detail and provides an example of its use. If you have any questions regarding your OfficeServ 7400 system or how to program it, call your authorized Samsung dealer.

## Guide Contents

This guide comprises two chapters and an annex.

### CHAPTER 1. Overview of MMC Programming

This chapter describes things you need to know before starting MMC programming. For example, it describes the special programming buttons on the digital phone and the precautions you need to take.

### CHAPTER 2. MMC Programming

This chapter describes in detail how to use each MMC program. MMCs are listed in numerical order.

### ANNEX. Abbreviations

Explains abbreviations frequently used in this guide and related guides.

## Reference Guides

The following guides are also provided with your OfficeServ 7400 system.

### OfficeServ 7400 Installation Guide

Describes the installation procedures and specifications for the OfficeServ 7400 system.

### OfficeServ 7400 General Description

Describes the business features available with the OfficeServ 7400 system.

### WIP-5000M User Guide

This is a user's guide for the WIP-5000M mobile telephone designed to use the wireless LAN provided by the OfficeServ 7400 system.

## Conventions Used in this Guide


**WARNING**

Provides information or instructions that you should follow in order to avoid personal injury.


**CAUTION**

Provides information or instructions that you should follow in order to avoid service failure or damage to the system.


**NOTE**

Indicates additional information for reference.

# WARNING

**When using Auto Record (MMC 752)**

Make sure that you are not violating any laws on the use of recording equipment. Samsung is not responsible for any illegal use of this feature.

# CAUTION

**CALL COST (MMC 508)**

Changing this value when there is a call in progress may result in an inaccurate call cost. This MPD facility requires the Meter Pulse Detection version of the trunk module.

**If intending to make changes in MMCs 503, 506, 510, 805, 807 or 816**

Do not change the default levels without the assistance of your dealer or Samsung Technical Support.

**Compliance with the National Version Standards**

For the national version, OfficeServ 7400 is designed to comply with the standards of the corresponding country. Therefore, if you need to use MMC 812 (Set Country Code), please consult your dealer for advice.

# TABLE OF CONTENTS

## LIST OF FIGURES

# CHAPTER 1. Overview of MMC Programming

MMC is short for Man Machine Communication, a means of programming your telephone system via a digital display phone. This chapter covers the things you need to know before you start MMC programming. The phone's special programming buttons, and precautions you should take while programming, are discussed.

## Introduction to Programming

Programming means setting and changing the data that is used for the system operating program. There are three levels of MMC programming: technician-, customer-, and station-level. Technician- and customer-level programming requires a passcode to access MMCs and is done by the installing technician and system administrator respectively. Station level programming does not require a passcode and can be done by phone users.

You need a digital display (LCD) phone in order to carry out programming.

### Technician-Level Programming

This level allows access to all MMCs and is required, normally, at the time the system is installed to set up the system for the customer's requirements. Some MMCs may cause the system to fail if used without a thorough understanding of system operation. The installing technician decides what MMCs to make accessible at customer level (using MMC 802) to allow the system administrator to refine the system setup when it is operating.

### Customer-Level Programming

The system administrator (customer) can do programming allowed by the installer in MMC 802 to change or enter new information for the system when it is in operation.

### Station-Level Programming

Programming can be done at station level by the administrator, or individual station users via their own phones, to change the data for individual phones only. The MMCs accessible are fewer than those available at other levels

# Phones Used for Programming

You need a digital display (LCD) phone in order to carry out programming. All use special buttons to select options on the display screen.

## 5000 and 5100 Series Phones

The 5000 and 5100 Series comprise:
(1) large LCD display phones, DS-5012L / 5012LE and ITP-5012L / 5112L, and
(2) 2-line LCD display phones, DS-5007S / 5014S / 5038S / 5014D / 5021D and ITP-5014D / 5021D / 5114D / 5121D / 5107S.

Some examples are shown in the figures below.

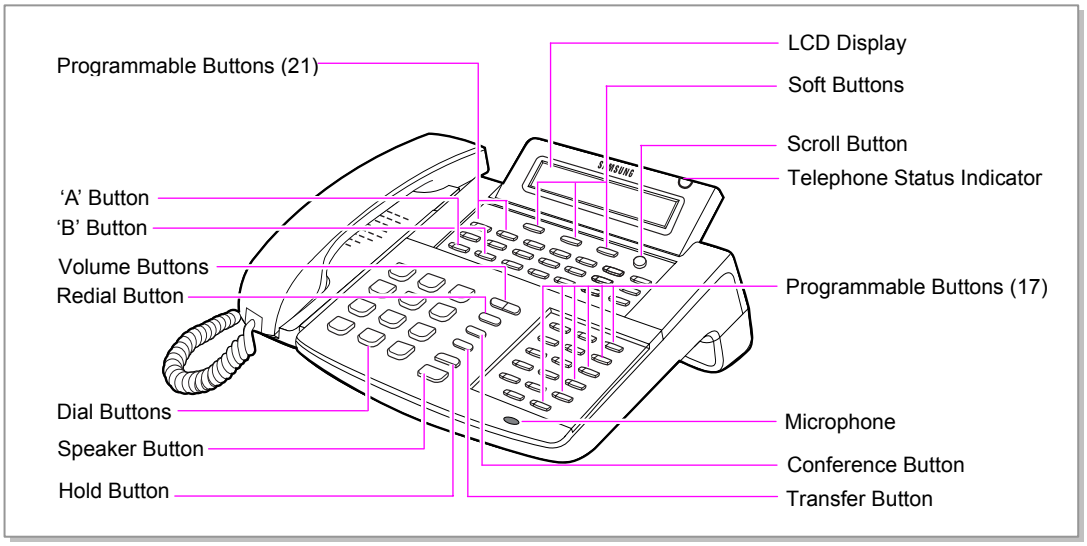



**Figure 1.1 DS-5038S Phone**

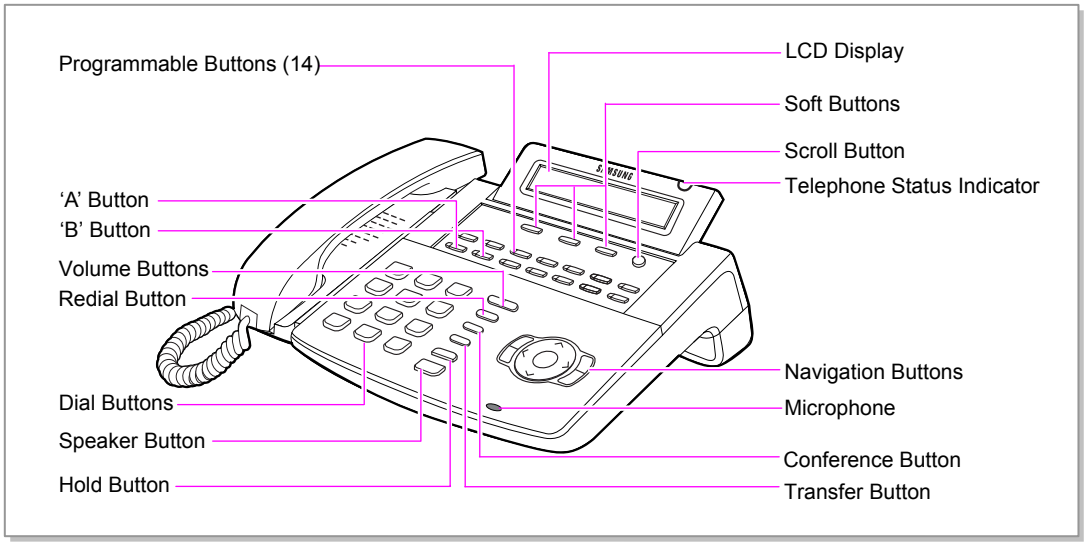



**Figure 1.2 DS/ITP-5014D & ITP-5114D Phone**

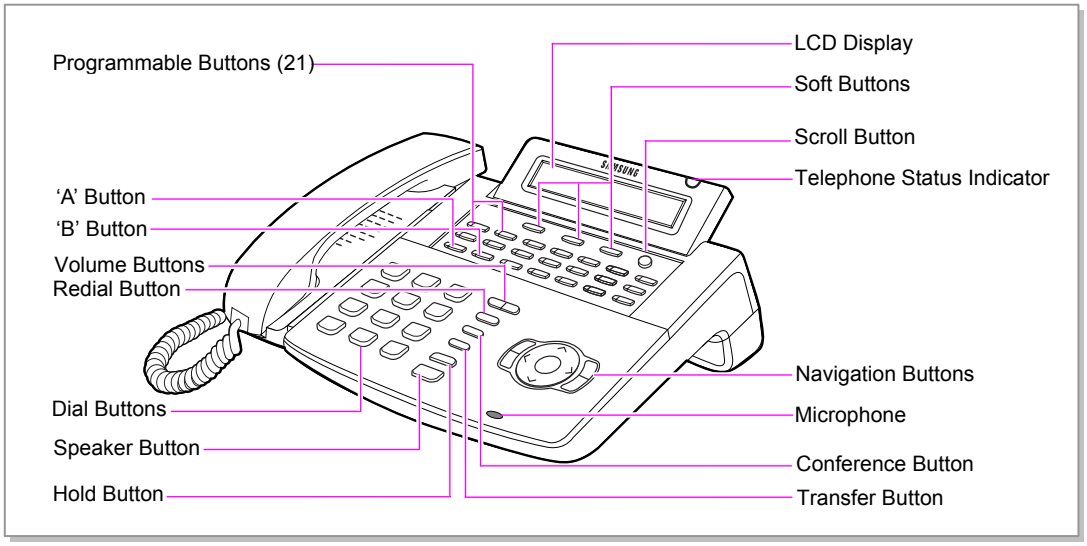



**Figure 1.3 DS/ITP-5021D & ITP-5121D Phone**

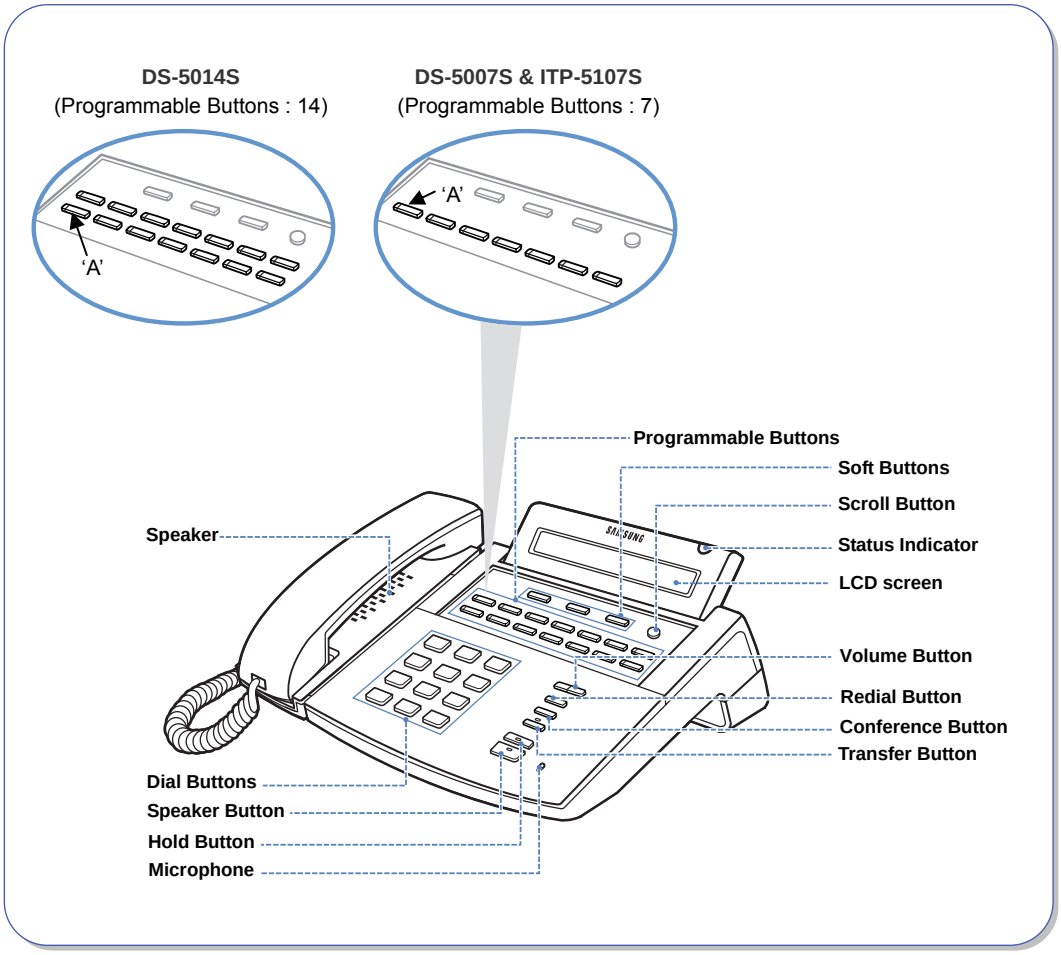



**Figure 1.4 DS-5014S/5007S & ITP-5107S Phone**

5000/5100 Series 2-line LCD phones have 38, 21, 14 or 7 programmable buttons that can be programmed with functions. Also, there are several other function buttons: the dial buttons, the volume control buttons, the redial button that allows you to redial the last phone number dialled, the conference button for setting up conference calls, the transfer button used to transfer a call to another station, the hold button to hold a call, and the speaker button for using the speakerphone. The navigation buttons (on 'D' prefix phones only) are used for easy selection of phone options and menus.

The LCD displays the station status and various other kinds of information. Using three colours (red, green, and yellow) the station status indicator displays the current status of station.

During programming, some of the buttons are used for the following special functions:

- **Volume (** ▼ ▬ ▲ **)** buttons : Scroll through items in the display.
- **Redial** (  ) button: Select 'ALL' option for making changes to all -- rather than individual -- stations/trunks/etc.
- **Speaker** (  ) button: Save data and proceed to the next program
- **Hold** (  ) button: Erase the entered data
- **Transfer** (  ) button: Enter programming mode / Save data and exit programming
- Soft buttons: Save data and/or move the cursor left and right
- 'A' button: Select uppercase or lowercase text

NOTE: Large LCD phones do not have programmable buttons. Instead, they display programming functions on the LCD for selection via special buttons. Refer to your keyset user guide for more information.

# Precautions When Programming

- Programming can be done on any digital LCD phone.
- Programming can be done only while the handset is on hook (the phone is in 'idle' state).
- If the LCD displays an 'INVALID DATA' message while programming, reenter the correct data.
- If no button is pressed for a certain period of time during programming (default is 60 seconds, but this can be changed), the phone exits from programming mode.
- Programming mode halts if the handset is picked up, the Transfer button is pressed, or the phone is unplugged. Any data previously entered in the display is saved.

# Program (MMC) List By Programming Level

The following lists show MMC programs categorized according to their use at the three programming levels: station, customer and technician.

## 1 Station-Level Programming

| MMC No. | MMC Name |
|---|---|
| MMC: 100 | STATION LOCK |
| MMC: 101 | CHANGE USER PASSCODE |
| MMC: 102 | CALL FORWARD |
| MMC: 103 | SET ANSWER MODE |
| MMC: 104 | STATION NAME |
| MMC: 105 | STATION SPEED DIAL |
| MMC: 106 | STATION SPEED DIAL NAME |
| MMC: 107 | KEY EXTENDER |
| MMC: 108 | STATION STATUS |
| MMC: 109 | DATE DISPLAY |
| MMC: 110 | STATION ON/OFF |
| MMC: 111 | PHONE RING TONE |
| MMC: 112 | ALARM REMINDER CLOCK |
| MMC: 113 | VIEW MEMO NUMBER |
| MMC: 114 | PHONE VOLUME |
| MMC: 115 | SET PROGRAMMED MESSAGE |
| MMC: 116 | ALARM AND MESSAGE |
| MMC: 117 | EDIT TEXT MESSAGE |
| MMC: 118 | CONFERENCE GROUP |
| MMC: 119 | CALLER ID DISPLAY |
| MMC: 120 | LARGE LCD OPTIONS |
| MMC: 121 | PHONE LANGUAGE |
| MMC: 122 | NEWS DISPLAY SPEED |
| MMC: 125 | EXECUTIVE STATE |

# 2 Customer-Level Programming

## System-Related MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 200 | OPEN CUSTOMER PROGRAMMING |
| MMC: 201 | CHANGE CUSTOMER PASSCODE |
| MMC: 202 | CHANGE FEATURE PASSCODE |
| MMC: 203 | ASSIGN UA DEVICE |
| MMC: 204 | COMMON BELL CONTROL |
| MMC: 205 | ASSIGN LOUD BELL |
| MMC: 206 | BARGE-IN TYPE |
| MMC: 207 | ASSIGN VM/AA PORT |
| MMC: 208 | ASSIGN RING TYPE |
| MMC: 209 | ASSIGN ADD-ON MODULE |
| MMC: 210 | CUSTOMER ON/OFF PER TENANT |
| MMC: 211 | DOOR RING ASSIGNMENT |
| MMC: 214 | DISA ALARM RINGING STATION |
| MMC: 217 | TRAFFIC REPORT OPTION |
| MMC: 220 | ISDN SERVICE TYPE |
| MMC: 221 | EXTENSION TYPE |
| MMC: 222 | FAX PAIR |
| MMC: 224 | AUDIO PROMPT |

## Station-Related MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 300 | CUSTOMER ON/OFF PER STATION |
| MMC: 301 | ASSIGN STATION COS |
| MMC: 302 | PICKUP GROUPS |
| MMC: 303 | ASSIGN BOSS/SECRETARY |
| MMC: 304 | ASSIGN EXTENSION/TRUNK USE |
| MMC: 305 | ASSIGN FORCED CODE |
| MMC: 306 | HOT LINE/OFF HOOK SELECTION |
| MMC: 308 | ASSIGN BACKGROUND MUSIC SOURCE |
| MMC: 309 | ASSIGN STATION MOH SOURCE |
| MMC: 310 | LCR CLASS OF SERVICE |
| MMC: 312 | ALLOW CALLER ID |
| MMC: 314 | CONFIRM OUTGOING CALL |
| MMC: 315 | CUSTOMER SET RELOCATION |
| MMC: 316 | COPY STATION USABLE |
| MMC: 317 | ASSIGN STATION/STATION USE |
| MMC: 318 | DISTINCTIVE RINGING |
| MMC: 319 | BRANCH GROUP |
| MMC: 320 | PRESET FORWARD NO ANSWER |
| MMC: 323 | CALLING PARTY NUMBER |

## Trunk-Related MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 400 | CUSTOMER ON/OFF PER TRUNK |
| MMC: 401 | TRUNK LINE/PBX LINE |
| MMC: 402 | TRUNK DIAL TYPE |
| MMC: 403 | TRUNK TOLL CLASS |
| MMC: 404 | TRUNK NAME |
| MMC: 405 | TRUNK CO TEL NUMBER |
| MMC: 406 | TRUNK RING ASSIGNMENT |
| MMC: 407 | FORCED TRUNK RELEASE |
| MMC: 408 | ASSIGN TRUNK MOH SOURCE |
| MMC: 409 | TRUNK STATUS READ |
| MMC: 410 | ASSIGN DISA TRUNK |
| MMC: 411 | ASSIGN E1 SIGNAL TYPE |
| MMC: 412 | ASSIGN TRUNK SIGNAL |
| MMC: 413 | VMS CALL TYPE |
| MMC: 414 | MPD/PRS SIGNAL |
| MMC: 415 | REPORT TRUNK ABANDON DATA |
| MMC: 416 | ASSIGN E&M/DID RINGDOWN |
| MMC: 417 | E1/PRI CRC4 |
| MMC: 418 | BRI & PRI CARD RESTART |
| MMC: 419 | BRI OPTIONS |
| MMC: 420 | PRI OPTIONS |
| MMC: 421 | MSN DIGIT |
| MMC: 422 | TRUNK COS |
| MMC: 423 | S/T MODE |
| MMC: 424 | BRI S0 MAPPING |
| MMC: 426 | TRUNK GAIN CONTROL |
| MMC: 428 | ASSIGN TRUNK/TRUNK USE |
| MMC: 432 | SET H-TRK |
| MMC: 433 | COST RATE |
| MMC: 434 | CONNECTION STATUS |
| MMC: 436 | TRUNK TMC GAIN |

## Timer- and Tone-Related MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 500 | SYSTEM-WIDE COUNTERS |
| MMC: 501 | SYSTEM TIMERS |
| MMC: 502 | STATION-WIDE TIMERS |
| MMC: 503 | TRUNK-WIDE TIMERS |
| MMC: 504 | PULSE MAKE/BREAK RATIO |
| MMC: 505 | ASSIGN DATE AND TIME |
| MMC: 506 | TONE CADENCE |
| MMC: 507 | ASSIGN RING PLAN TIME |
| MMC: 508 | CALL COST |
| MMC: 510 | SLI RING CADENCE |
| MMC: 511 | MSG WAITING LAMP CADENCE |
| MMC: 512 | HOLIDAY ASSIGNMENT |
| MMC: 513 | HOTEL TIMER |
| MMC: 514 | TONE SOURCE |
| MMC: 515 | DAYLIGHT ASSIGNMENT |

## Group-Related MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 600 | ASSIGN OPERATOR GROUP |
| MMC: 601 | ASSIGN STATION GROUP |
| MMC: 602 | STATION GROUP NAME |
| MMC: 603 | ASSIGN TRUNK GROUP |
| MMC: 604 | ASSIGN STATION TO PAGE ZONE |
| MMC: 605 | ASSIGN EXTERNAL PAGE ZONE |
| MMC: 606 | ASSIGN SPEED BLOCK |
| MMC: 607 | UCD OPTIONS |
| MMC: 608 | ASSIGN REVIEW BLOCK |
| MMC: 609 | CALL LOG BLOCK |
| MMC: 611 | ALLOW TEXT MESSAGING |
| MMC: 612 | ALLOW GROUP CONFERENCE |
| MMC: 614 | STATION/TRUNK USE GROUP |
| MMC: 615 | MGI GROUP |
| MMC: 616 | MGI USER |

## Tables, Codes and Voice Mail MMCs

| MMC No. | MMC Name |
|---|---|
| MMC: 700 | COPY COS CONTENTS |
| MMC: 701 | ASSIGN COS CONTENTS |
| MMC: 702 | TOLL DENY TABLE |
| MMC: 703 | TOLL ALLOWANCE TABLE |
| MMC: 704 | ASSIGN WILD CHARACTER |
| MMC: 705 | ASSIGN SYSTEM SPEED DIAL |
| MMC: 706 | SYSTEM SPEED DIAL BY NAME |
| MMC: 707 | AUTHORIZATION CODE |
| MMC: 708 | ACCOUNT CODE |
| MMC: 709 | TOLL PASS CODE/SPECIAL CODE TABLE |
| MMC: 710 | LCR DIGIT TABLE |
| MMC: 711 | LCR TIME TABLE |
| MMC: 712 | LCR ROUTE TABLE |
| MMC: 713 | LCR MODIFY DIGIT TABLE |
| MMC: 714 | DID NUMBER AND NAME TRANSLATION |
| MMC: 715 | PROGRAMMED STATION MESSAGE |
| MMC: 716 | UK LCR OPTION |
| MMC: 717 | UCD AGENT ID |
| MMC: 718 | MY AREA CODE |
| MMC: 719 | IDLE DISPLAY |
| MMC: 720 | COPY KEY PROGRAMMING |
| MMC: 721 | SAVE STATION KEY PROGRAMMING |
| MMC: 722 | STATION KEY PROGRAMMING |
| MMC: 723 | SYSTEM KEY PROGRAMMING |
| MMC: 724 | DIAL NUMBERING PLAN |
| MMC: 725 | SMDR OPTIONS |
| MMC: 726 | VM/AA OPTIONS |
| MMC: 727 | SYSTEM VERSION DISPLAY |
| MMC: 728 | CID TRANSLATION TABLE |
| MMC: 740 | STATION PAIR |
| MMC: 746 | COSTING DIAL PLAN |
| MMC: 747 | RATE CALCULATION TABLE |
| MMC: 750 | VM CARD RESTART |
| MMC: 751 | ASSIGN MAILBOX |
| MMC: 752 | AUTO RECORD |

| MMC No. | MMC Name |
|---|---|
| MMC: 753 | WARNING DESTINATION |
| MMC: 754 | VM HALT |
| MMC: 755 | VM ALARM |
| MMC: 756 | ASSIGN VMMOH |
| MMC: 757 | VM IN/OUT |
| MMC: 758 | VM DAY/NIGHT |
| MMC: 759 | CLI RINGING |
| MMC: 760 | ITEM COST TABLE |
| MMC: 761 | TAX RATE SETUP |
| MMC: 762 | ROOM COST RATE |
| MMC: 763 | SECOND LCR |

# 3 Technician-Level Programming

| MMC No. | MMC Name |
|---|---|
| MMC: 800 | ENABLE TECHNICIAN PROGRAM |
| MMC: 801 | CHANGE TECHNICIAN PASSCODE |
| MMC: 802 | CUSTOMER ACCESS MMC NUMBER |
| MMC: 803 | ASSIGN TENANT GROUP |
| MMC: 805 | TX LEVEL AND GAIN |
| MMC: 806 | CARD PRE-INSTALL |
| MMC: 807 | PHONE VOLUME CONTROL |
| MMC: 810 | HALT PROCESSING |
| MMC: 811 | RESET SYSTEM |
| MMC: 812 | SET COUNTRY CODE |
| MMC: 813 | HOTEL OPERATION |
| MMC: 815 | CUSTOMER DATABASE COPY |
| MMC: 816 | CONFERENCE GAIN |
| MMC: 818 | PROGRAM DOWNLOAD |
| MMC: 819 | SMART MEDIA FILE CONTROL |
| MMC: 820 | ASSIGN SYSTEM LINK ID |
| MMC: 821 | ASSIGN NETWORK TRUNK |
| MMC: 822 | VIRTUAL EXTENSION TYPE |
| MMC: 823 | ASSIGN NETWORK COS |
| MMC: 824 | NETWORK DIAL TRANSLATION |
| MMC: 825 | ASSIGN NETWORKING OPTIONS |
| MMC: 826 | ASSIGN SYSTEM REFERENCE CLOCK |

| MMC No. | MMC Name |
|---|---|
| MMC: 827 | CRM DSP MODE |
| MMC: 829 | LAN PRINTER PARAMETERS |
| MMC: 830 | ETHERNET PARAMETERS |
| MMC: 831 | MGI PARAMETERS |
| MMC: 832 | VoIP ACCESS CODE |
| MMC: 833 | VoIP IP TABLE |
| MMC: 834 | H.323 OPTIONS |
| MMC: 835 | MGI DSP OPTIONS |
| MMC: 836 | H.323 GK OPTIONS |
| MMC: 837 | SIP OPTIONS |
| MMC: 838 | PRIVATE IP ADDRESSES |
| MMC: 840 | IP PHONE INFORMATION |
| MMC: 841 | SYSTEM IP OPTIONS |
| MMC: 842 | SIP STATION INFORMATION |
| MMC: 844 | IP STATION TYPE |
| MMC: 845 | WLAN PARAMETERS |
| MMC: 846 | WIP INFORMATION |
| MMC: 847 | WLAN RESET AND STATUS CHECK |
| MMC: 848 | WLAN IP/MAC LIST |
| MMC: 849 | WLAN CONFIGURATION |
| MMC: 850 | SYSTEM RESOURCE DISPLAY |
| MMC: 851 | ALARM REPORTING |
| MMC: 852 | SYSTEM ALARM ASSIGNMENTS |
| MMC: 853 | MAINTENANCE BUSY |
| MMC: 854 | DIAGNOSTIC TIME |
| MMC: 855 | DISPLAY SYSTEM OPTIONS |
| MMC: 856 | TECH PROGRAMMING LOGS |
| MMC: 857 | VIRTUAL CABINET |
| MMC: 858 | ASSIGN SYSTEM EMERGENCY ALARM |
| MMC: 859 | HARDWARE VERSION DISPLAY |
| MMC: 860 | UCD STATUS SERVICE |
| MMC: 861 | SYSTEM OPTIONS |
| MMC: 865 | FAN POWER CONTROL |
| MMC: 889 | DISPLAY SERVER STATUS |
| MMC: 890 | INITIALIZE PORT |

# Program (MMC) List by Name

This program list is arranged alphabetically.

| MMC Name | MMC No. |
|---|---|
| ACCOUNT CODE | MMC: 708 |
| ALARM AND MESSAGE | MMC: 116 |
| ALARM REMINDER CLOCK | MMC: 112 |
| ALARM REPORTING | MMC: 851 |
| ALLOW CALLER ID | MMC: 312 |
| ALLOW GROUP CONFERENCE | MMC: 612 |
| ALLOW TEXT MESSAGING | MMC: 611 |
| ASSIGN ADD ON MODULE | MMC: 209 |
| ASSIGN BACKGROUND MUSIC SOURCE | MMC: 308 |
| ASSIGN BOSS/SECRETARY | MMC: 303 |
| ASSIGN COS CONTENTS | MMC: 701 |
| ASSIGN DATE AND TIME | MMC: 505 |
| ASSIGN DISA TRUNK | MMC: 410 |
| ASSIGN E&M/DID RINGDOWN | MMC: 416 |
| ASSIGN E1 SIGNAL TYPE | MMC: 411 |
| ASSIGN EXTENSION/TRUNK USE | MMC: 304 |
| ASSIGN EXTERNAL PAGE ZONE | MMC: 605 |
| ASSIGN FORCED CODE | MMC: 305 |
| ASSIGN LOUD BELL | MMC: 205 |
| ASSIGN MAILBOX | MMC: 751 |
| ASSIGN NETWORK COS | MMC: 823 |
| ASSIGN NETWORK TRUNK | MMC: 821 |
| ASSIGN NETWORKING OPTIONS | MMC: 825 |
| ASSIGN OPERATOR GROUP | MMC: 600 |
| ASSIGN REVIEW BLOCK | MMC: 608 |
| ASSIGN RING PLAN TIME | MMC: 507 |
| ASSIGN RING TYPE | MMC: 208 |
| ASSIGN SPEED BLOCK | MMC: 606 |
| ASSIGN STATION COS | MMC: 301 |
| ASSIGN STATION GROUP | MMC: 601 |
| ASSIGN STATION MOH SOURCE | MMC: 309 |
| ASSIGN STATION TO PAGE ZONE | MMC: 604 |
| ASSIGN STATION/STATION USE | MMC: 317 |

| MMC Name | MMC No. |
|---|---|
| ASSIGN SYSTEM EMERGENCY ALARM | MMC: 858 |
| ASSIGN SYSTEM LINK ID | MMC: 820 |
| ASSIGN SYSTEM REFERENCE CLOCK | MMC: 826 |
| ASSIGN SYSTEM SPEED DIAL | MMC: 705 |
| ASSIGN TENANT GROUP | MMC: 803 |
| ASSIGN TRUNK GROUP | MMC: 603 |
| ASSIGN TRUNK MOH SOURCE | MMC: 408 |
| ASSIGN TRUNK SIGNAL | MMC: 412 |
| ASSIGN TRUNK/TRUNK USE | MMC: 428 |
| ASSIGN UA DEVICE | MMC: 203 |
| ASSIGN VMMOH | MMC: 756 |
| ASSIGN VM/AA PORT | MMC: 207 |
| ASSIGN WILD CHARACTER | MMC: 704 |
| AUDIO PROMPT | MMC:224 |
| AUTHORIZATION CODE | MMC: 707 |
| AUTO RECORD | MMC: 752 |
| BARGE-IN TYPE | MMC: 206 |
| BRANCH GROUP | MMC: 319 |
| BRI & PRI CARD RESTART | MMC: 418 |
| BRI OPTIONS | MMC: 419 |
| BSI RF CARRIER | MMC: 747 |
| BRI S0 MAPPING | MMC: 424 |
| CALL COST | MMC: 508 |
| CALL FORWARD | MMC: 102 |
| CALL LOG BLOCK | MMC: 609 |
| CALLER ID DISPLAY | MMC: 119 |
| CALLING PARTY NUMBER | MMC: 323 |
| CARD PRE-INSTALL | MMC: 806 |
| CHANGE CUSTOMER PASSCODE | MMC: 201 |
| CHANGE FEATURE PASSCODE | MMC: 202 |
| CHANGE TECHNICIAN PASSCODE | MMC: 801 |
| CHANGE USER PASSCODE | MMC: 101 |
| CID TRANSLATION TABLE | MMC: 728 |
| CLI RINGING | MMC: 759 |
| COMMON BELL CONTROL | MMC: 204 |
| CONFERENCE GAIN | MMC: 816 |

| MMC Name | MMC No. |
|---|---|
| CONFERENCE GROUP | MMC: 118 |
| CONFIRM OUTGOING CALL | MMC: 314 |
| CONNECTION STATUS | MMC: 434 |
| COPY COS CONTENTS | MMC: 700 |
| COPY KEY PROGRAMMING | MMC: 720 |
| COPY STATION USABLE | MMC: 316 |
| COST RATE | MMC: 433 |
| COSTING DIAL PLAN | MMC: 746 |
| CUSTOMER ACCESS MMC NUMBER | MMC: 802 |
| CUSTOMER DATABASE COPY | MMC: 815 |
| CUSTOMER ON/OFF PER STATION | MMC: 300 |
| CUSTOMER ON/OFF PER TENANT | MMC: 210 |
| CUSTOMER ON/OFF PER TRUNK | MMC: 400 |
| CUSTOMER SET RELOCATION | MMC: 315 |
| DATE DISPLAY | MMC: 109 |
| DAYLIGHT ASSIGNMENT | MMC: 515 |
| DIAGNOSTIC TIME | MMC: 854 |
| DIAL NUMBERING PLAN | MMC: 724 |
| DID NUMBER AND NAME TRANSLATION | MMC: 714 |
| DISA ALARM RINGING STATION | MMC: 214 |
| DISPLAY SERVER STATUS | MMC: 889 |
| DISPLAY SYSTEM OPTIONS | MMC: 855 |
| DISTINCTIVE RINGING | MMC: 318 |
| DOOR RING ASSIGNMENT | MMC: 211 |
| E1/PRI CRC4 OPTION | MMC: 417 |
| EDIT TEXT MESSAGE | MMC: 117 |
| ENABLE TECHNICIAN PROGRAM | MMC: 800 |
| ETHERNET PARAMETERS | MMC: 830 |
| EXECUTIVE STATE | MMC: 125 |
| EXTENSION TYPE | MMC: 221 |
| FAX PAIR | MMC: 222 |
| FORCED TRUNK RELEASE | MMC: 407 |
| H.323 GK OPTIONS | MMC: 836 |
| H.323 OPTIONS | MMC: 834 |
| HALT PROCESSING | MMC: 810 |
| HARDWARE VERSION DISPLAY | MMC: 859 |

| MMC Name | MMC No. |
|---|---|
| HOLIDAY ASSIGNMENT | MMC: 512 |
| HOT LINE/OFF HOOK SELECTION | MMC: 306 |
| HOTEL OPERATION | MMC: 813 |
| HOTEL TIMER | MMC: 513 |
| IDLE DISPLAY | MMC: 719 |
| INITIALIZE PORT | MMC: 890 |
| IP PHONE INFORMATION | MMC: 840 |
| IP STATION TYPE | MMC: 844 |
| ISDN SERVICE TYPE | MMC: 220 |
| ITEM COST TABLE | MMC: 760 |
| KEY EXTENDER | MMC: 107 |
| LAN PRINTER PARAMETERS | MMC: 829 |
| LARGE LCD OPTIONS | MMC: 120 |
| LCR CLASS OF SERVICE | MMC: 310 |
| LCR DIGIT TABLE | MMC: 710 |
| LCR MODIFY DIGIT TABLE | MMC: 713 |
| LCR ROUTE TABLE | MMC: 712 |
| LCR TIME TABLE | MMC: 711 |
| MAINTENANCE BUSY | MMC: 853 |
| MGI DSP OPTIONS | MMC: 835 |
| MGI GROUP | MMC: 615 |
| MGI PARAMETERS | MMC: 831 |
| MGI USER | MMC: 616 |
| MPD/PRS SIGNAL | MMC: 414 |
| MSG WAITING LAMP CADENCE | MMC: 511 |
| MSN DIGIT | MMC: 421 |
| MY AREA CODE | MMC: 718 |
| NETWORK DIAL TRANSLATION | MMC: 824 |
| NEWS DISPLAY SPEED | MMC: 122 |
| OPEN CUSTOMER PROGRAMMING | MMC: 200 |
| PHONE LANGUAGE | MMC: 121 |
| PHONE RING TONE | MMC: 111 |
| PHONE VOLUME | MMC: 114 |
| PHONE VOLUME CONTROL | MMC: 807 |
| PICKUP GROUPS | MMC: 302 |
| PRESET FORWARD NO ANSWER | MMC: 320 |

| MMC Name | MMC No. |
|---|---|
| PRI OPTIONS | MMC: 420 |
| PRIVATE IP ADDRESSES | MMC: 838 |
| PROGRAM DOWNLOAD | MMC: 818 |
| PROGRAMMED STATION MESSAGE | MMC: 715 |
| PULSE MAKE/BREAK RATIO | MMC: 504 |
| RATE CALCULATION TABLE | MMC: 747 |
| REPORT TRUNK ABANDON DATA | MMC: 415 |
| RESET SYSTEM | MMC: 811 |
| ROOM COST RATE | MMC: 762 |
| SAVE STATION KEY PROGRAMMING | MMC: 721 |
| SET ANSWER MODE | MMC: 103 |
| S/T MODE | MMC: 423 |
| SAVE STATION KEY PROGRAMMING | MMC: 721 |
| SET ANSWER MODE | MMC: 103 |
| SET COUNTRY CODE | MMC: 812 |
| SET PROGRAMMED MESSAGE | MMC: 115 |
| SIP OPTIONS | MMC: 837 |
| SIP STATION INFORMATION | MMC: 842 |
| SLI RING CADENCE | MMC: 510 |
| SMART MEDIA FILE CONTROL | MMC: 819 |
| SMDR OPTIONS | MMC: 725 |
| STATION GROUP NAME | MMC: 602 |
| STATION KEY PROGRAMMING | MMC: 722 |
| STATION LOCK | MMC: 100 |
| STATION NAME | MMC: 104 |
| STATION ON/OFF | MMC: 110 |
| STATION PAIR | MMC: 740 |
| STATION SPEED DIAL | MMC: 105 |
| STATION SPEED DIAL NAME | MMC: 106 |
| STATION STATUS | MMC: 108 |
| STATION/TRUNK USE GROUP | MMC: 614 |
| STATION-WIDE TIMERS | MMC: 502 |
| SYSTEM ALARM ASSIGNMENTS | MMC: 852 |
| SYSTEM KEY PROGRAMMING | MMC: 723 |
| SYSTEM IP OPTIONS | MMC: 841 |
| SYSTEM OPTIONS | MMC: 861 |

| MMC Name | MMC No. |
|---|---|
| SYSTEM RESOURCE DISPLAY | MMC: 850 |
| SYSTEM SPEED DIAL BY NAME | MMC: 706 |
| SYSTEM TIMERS | MMC: 501 |
| SYSTEM VERSION DISPLAY | MMC: 727 |
| SYSTEM-WIDE COUNTERS | MMC: 500 |
| TAX RATE SETUP | MMC: 761 |
| TECH PROGRAMMING LOGS | MMC: 856 |
| TOLL ALLOWANCE TABLE | MMC: 703 |
| TOLL DENY TABLE | MMC: 702 |
| TOLL PASS CODE/SPECIAL CODE TABLE | MMC: 709 |
| TONE CADENCE | MMC: 506 |
| TONE SOURCE | MMC: 514 |
| TRAFFIC REPORT OPTION | MMC: 217 |
| TRUNK CO TEL NUMBER | MMC: 405 |
| TRUNK COS | MMC: 422 |
| TRUNK DIAL TYPE | MMC: 402 |
| TRUNK GAIN CONTROL | MMC: 426 |
| TRUNK LINE/PBX LINE | MMC: 401 |
| TRUNK NAME | MMC: 404 |
| TRUNK RING ASSIGNMENT | MMC: 406 |
| TRUNK STATUS READ | MMC: 409 |
| TRUNK TMC GAIN | MMC: 436 |
| TRUNK TOLL CLASS | MMC: 403 |
| TRUNK-WIDE TIMERS | MMC: 503 |
| TX LEVEL AND GAIN | MMC: 805 |
| UCD AGENT ID | MMC: 717 |
| UCD OPTIONS | MMC: 607 |
| UCD STATUS SERVICE | MMC: 860 |
| UK LCR OPTION | MMC: 716 |
| VIEW MEMO NUMBER | MMC: 113 |
| VIRTUAL EXTENSION TYPE | MMC: 822 |
| VM ALARM | MMC: 755 |
| VM CARD RESTART | MMC: 750 |
| VM DAY/NIGHT | MMC: 758 |
| VM HALT | MMC: 754 |
| VM IN/OUT | MMC: 757 |
| VM/AA OPTIONS | MMC: 726 |

| MMC Name | MMC No. |
|---|---|
| VMS CALL TYPE | MMC: 413 |
| VoIP ACCESS CODE | MMC: 832 |
| VoIP IP TABLE | MMC: 833 |
| WARNING DESTINATION | MMC: 753 |
| WIP INFORMATION | MMC: 846 |
| WLAN CONFIGURATION | MMC: 849 |
| WLAN IP/MAC LIST | MMC: 848 |
| WLAN PARAMETERS | MMC: 845 |
| WLAN RESET AND STATUS CHECK | MMC: 847 |

# Program (MMC) List by Function

## Phone Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 100 | STATION LOCK |
| MMC: 101 | CHANGE USER PASSCODE |
| MMC: 102 | CALL FORWARD |
| MMC: 103 | SET ANSWER MODE |
| MMC: 104 | STATION NAME |
| MMC: 105 | STATION SPEED DIAL |
| MMC: 106 | STATION SPEED DIAL NAME |
| MMC: 107 | KEY EXTENDER |
| MMC: 108 | STATION STATUS |
| MMC: 109 | DATE DISPLAY |
| MMC: 110 | STATION ON/OFF |
| MMC: 111 | PHONE RING TONE |
| MMC: 112 | ALARM REMINDER CLOCK |
| MMC: 114 | PHONE VOLUME |
| MMC: 115 | SET PROGRAMMED MESSAGE |
| MMC: 116 | ALARM AND MESSAGE |
| MMC: 119 | CALLER ID DISPLAY |

## Networking Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 820 | ASSIGN SYSTEM LINK ID |
| MMC: 821 | ASSIGN NETWORK TRUNK |
| MMC: 822 | SET VIRTUAL EXTENSION TYPE |
| MMC: 823 | ASSIGN NETWORK COS |
| MMC: 824 | NETWORK DIAL TRANSLATION |
| MMC: 825 | ASSIGN NETWORKING OPTION |
| MMC: 829 | LAN PRINTER PARAMETER |
| MMC: 830 | ETHERNET PARAMETERS |
| MMC: 837 | SIP OPTIONS |
| MMC: 840 | IP PHONE INFORMATIONES |
| MMC: 841 | SYSTEM IP OPTIONS |
| MMC: 844 | IP STATION TYPE |

## VoIP (Voice over Internet Protocol) Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 831 | MGI PARAMETERS |
| MMC: 832 | VOIP ACCESS CODE |
| MMC: 833 | VoIP IP TABLE |
| MMC: 834 | H.323 OPTIONS |
| MMC: 835 | MGI DSP OPTIONS |
| MMC: 836 | H.323 GK OPTIONS |

## WLAN (Wireless LAN) Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 845 | WLAN PARAMETER |
| MMC: 846 | WIP INFORMATION |
| MMC: 847 | WLAN RESET AND STATUS CHECK |
| MMC: 848 | WLAN IP/MAC LIST |
| MMC: 849 | WLAN CONFIGURATION |

## LCR (Least Cost Routing) Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 710 | LCR DIGIT TABLE |
| MMC: 711 | LCR TIME TABLE |
| MMC: 712 | LCR ROUTE TABLE |
| MMC: 713 | LCR MODIFY DIGIT TABLE |
| MMC: 763 | SECOND LCR |

## Voice Mail Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 207 | ASSIGN VM/AA PORT |
| MMC: 215 | VOICE DIALLER OPTIONS |
| MMC: 216 | VOICE DIALLER ASSIGNMENTS |
| MMC: 413 | VMS CALL TYPE |
| MMC: 726 | VM/AA OPTIONS |
| MMC: 730 | AA RECORD GAIN |
| MMC: 731 | AA RAM CLEAR |
| MMC: 732 | AA TRANSLATION TABLE |
| MMC: 733 | AA PLAN TABLE |
| MMC: 735 | AA USE TABLE |
| MMC: 736 | AUTO ATTENDANT MESSAGE MATCH |
| MMC: 739 | ASSIGN AA MOH |
| MMC: 750 | VM CARD RESTART |
| MMC: 751 | ASSIGN MAILBOX |
| MMC: 752 | AUTO RECORD |
| MMC: 753 | WARNING DESTINATION |
| MMC: 754 | VM HALT |
| MMC: 755 | VM ALARM |
| MMC: 756 | ASSIGN VM MOH |
| MMC: 757 | VM IN/OUT |
| MMC: 758 | VM DAY/NIGHT |

## Diagnosis Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 434 | CONNECTION STATUS |
| MMC: 851 | ALARM REPORTING |
| MMC: 852 | SYSTEM ALARM ASSIGNMENTS |
| MMC: 853 | MAINTENANCE BUSY |
| MMC: 854 | DIAGNOSTIC TIME |
| MMC: 855 | SYSTEM OPTIONS |
| MMC: 890 | INITIALIZE PORT |

## Hotel Function

| MMC Program No. | Program Description |
|---|---|
| MMC: 221 | TRAFFIC REPORT OPTION |
| MMC: 222 | EXTENSION TYPE |
| MMC: 433 | COST RATE |
| MMC: 513 | HOTEL TIMER |
| MMC: 748 | COSTING DIAL PLAN |
| MMC: 749 | RATE CALCULATION TABLE |
| MMC: 760 | ITEM COST TABLE |
| MMC: 761 | TAX RATE SETUP |
| MMC: 762 | ROOM COST RATE |

# CHAPTER 2. MMC Programming

This chapter describes how to use each MMC program. MMCs are listed in numerical order beginning at 100.

## Summary of Programming Procedures

Please read the following carefully. It describes the basic steps required for successful programming.

**1. Enter programming mode.**

i) Press the Transfer button.
ii) Enter either 200 (for customer level) or 800 (for technician level).
iii) Enter either the customer passcode or the technician passcode depending on your selection in step (ii).
iv) Press dial button 1 (or use the Volume button) to enable programming mode.
v) Press the Speaker button to display the program selection mode (or press the Transfer button to leave programming mode if you don't want to continue).

**2. Select a program.**

Enter the MMC number you require. Or, select the MMC number with the Volume buttons and press the Speaker button.

**3. Start programming.**

Follow the description given for the selected MMC.

**If this is the first time the system has been programmed after installation, run MMC 812 to set the appropriate system software version for your country before doing any other programming.**

# Programming Procedures

This section describes the procedure for each MMC.

## [100] STATION LOCK

Allows the system administrator or technician to lock or unlock an individual station or all stations simultaneously. The three options are as follows:

| No | Type | Description |
|---|---|---|
| 0 | UNLOCKED | Unlocks a locked station. |
| 1 | LOCKED OUT | The phone cannot make calls outside the system. It can however make and receive intercom calls and receive incoming Trunk Line calls. When in this mode the Hold button will flash slow RED. |
| 2 | LOCKED ALL | The phone cannot make or receive any calls. When in this mode the Hold button will light steady RED. |

### CONDITIONS

Check if the station lock function is disabled in MMC 301, ASSIGN STATION COS. If so, the station cannot be locked, but a locked station can be unlocked.

### DEFAULT DATA

ALL STATIONS UNLOCKED

### ACTION

1. Press Transfer button and enter 100.
   Display shows:

   DISPLAY:
   ```
   [201] STN LOCK
   UNLOCKED
   ```

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.
   OR
   Select all stations.

   DISPLAY:
   ```
   [205] STN LOCK
   UNLOCKED
   ```
   ```
   [ALL] STN LOCK
   ?
   ```

3. Enter 0 to unlock or 1 to lock (e.g., 1)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

   DISPLAY:
   ```
   [205] STN LOCK
   LOCKED OUT
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 101 | CHANGE USER PASSCODE |
| MMC 301 | ASSIGN STATION COS |
| MMC 701 | ASSIGN COS CONTENTS |

# [101] CHANGE USER PASSCODE

Allows the system administrator or technician to reset any phone's passcode to its default value of '1234'. This MMC cannot display station passcodes; it can only reset them to default.

Phone users can set or change their individual passcodes. The passcode is used to lock or unlock the phone for toll restriction (call barring) override and to access the DISA feature.


NOTE

**Default passcodes**

Default passcodes cannot be used for toll restriction override or for DISA access.

## DEFAULT DATA

ALL STATION PASSCODES: 1234

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 101.<br>Display shows: | [201] PASSCODE<br>PASSCODE:**** |
| 2. Dial phone number.(e.g., 205)<br>OR<br>Use Volume button to scroll through phone numbers and press Right Soft button to move the cursor right. | [205] PASSCODE<br>PASSCODE:**** |
| 3. Press Hold button to reset passcode. | [205] PASSCODE<br>PASSCODE:1234 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 100 STATION LOCK

# [102] CALL FORWARD

Allows the system administrator to program the call forward destinations for other station users. This MMC also allows call forward to be set after the destination has been entered.

Allows several types of call forwarding: FORWARD ALL, FORWARD NO ANSWER, FORWARD BUSY and FORWARD DND. There is an additional option, FORWARD BUSY/NO ANSWER, which allows both of these options to be activated at the same time, provided that destinations have been entered for both.

| No | Type |
|---|---|
| 0 | FORWARD CANCEL |
| 1 | FORWARD ALL CALL |
| 2 | FORWARD BUSY |
| 3 | FORWARD NO ANSWER |
| 4 | FORWARD BUSY/NO ANSWER |
| 5 | FORWARD DND |

## CONDITIONS

- When ‘FORWARD BUSY/NO ANSWER’ is selected, calls are forwarded to stations set in ‘FORWARD BUSY’ and ‘FORWARD NO ANSWER’. Thus, a destination number must be set for both ‘FORWARD BUSY’ and ‘FORWARD NO ANSWER’ before you can select the ‘FORWARD BUSY/NO ANSWER’ option.
- If forwarding is set to ‘OFF’ in MMC 701, ASSIGN COS CONTENTS, call forwarding cannot be set but can be cancelled. (Default: ‘OFF’)
- Both ‘FORWARD’ and ‘ICM EXT FWD’ must be set to ‘ON’ in MMC 701, ASSIGN COS CONTENTS in order to forward a call to an external number. If only ‘FORWARD’ is set to ‘ON’, calls can only be forwarded to internal numbers. (Default: ‘OFF’)

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 102.<br>Display shows: | [201] FORWARD<br>0:FORWARD CANCEL |
| 2. Dial station number.(e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] FORWARD<br>0:FORWARD CANCEL |
| 3. Dial 0-5 to select forward type.<br>OR<br>Press Volume button to select forward type (e.g. 1) and press Right Soft button to move cursor. | [205] FORWARD<br>1:ALL CALL:NONE |
| 4. Dial destination number (e.g., 201)<br>OR<br>Press Volume button to select destination and press Right Soft button to move cursor. | [205] FORWARD<br>1:ALL CALL:201 |
| 5. Dial 1 for YES, 0 for NO.<br>OR<br>Press Volume button to select YES or NO and press Right Soft button to return to step 2. | [205] FORWARD<br>CURRENTLY SET :YES |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 301 | ASSIGN STATION COS |
| MMC 501 | SYSTEM TIMERS |
| MMC 502 | STATION-WIDE TIMERS |
| MMC 701 | ASSIGN COS CONTENTS |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [103] SET ANSWER MODE

Allows the system administrator to change the answer mode of any phone. Each phone can have its answer mode set to one of the following options:

| No | Type | Description |
|---|---|---|
| 0 | RING MODE | The phone will ring in one of eight custom ring patterns. Calls are answered by pressing the ANS/RLS or SEND button or by lifting the handset. |
| 1 | AUTO ANSWER MODE | After giving a short attention tone, the phone will automatically answer calls on the speakerphone. When a Trunk line is transferred to a phone in Auto Answer, the screened portion of the call will be Auto Answered, but the phone will ring when the transfer is complete if you have not pressed the ANS/RLS or SEND button or lifted the handset.* |
| 2 | VOICE ANNOUNCE | The phone will not ring. After a short attention tone, callers can make an announcement but the ANS/RLS or SEND button or handset must be used to answer calls. |

* To answer C.O. calls automatically, also set ON the option AUTO ANS CO in MMC 110.

## DEFAULT DATA

ALL PHONES: RING

## ACTION

1. Press Transfer button and enter 103.
   Display shows:

   DISPLAY:
   ```
   [201] ANS MODE
   RING MODE
   ```

2. Dial phone number.(e.g., 205)
   OR
   Press Volume button to select phone and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [205] ANS MODE
   RING MODE
   ```

   OR
   Select all phones.

   DISPLAY:
   ```
   [ALL] ANS MODE
   ?
   ```

3. Dial 0, 1 or 2 to change ring mode.
   OR
   Press Volume button to select ring mode and press Right Soft button to return to step 2 above.

   DISPLAY:
   ```
   [205] ANS MODE
   VOICE ANNOUNCE
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 111 | PHONE RING TONE |

# [104] STATION NAME

Allows the system administrator or technician to enter a name up to 11 characters to identify an individual station.

## ENTERING CHARACTERS

Names are written using the keypad. Each key press selects a character. Pressing the dial pad key moves the cursor to the next position. For example, if the directory name is 'SAM SMITH,' press the number '7' four times to get the letter 'S'. Now press the number '2' once to get the letter 'A'. Continue selecting characters from the table below to complete your message. Pressing **'A' button** toggles between upper case and lower case.


NOTE

**Volume Up/Down keys**

When the character you want appears on the same dial pad key as the previous character, press the Volume Up button to move the cursor to the right or the Volume Down button to move the cursor to the left. A space can be entered using these keys.

| COUNT | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| DIAL 0 | < | > | . | ) | 0 |
| DIAL 1 | Space | ? | , | ! | 1 |
| DIAL 2 | A | B | C | @ | 2 |
| DIAL 3 | D | E | F | # | 3 |
| DIAL 4 | G | H | I | $ | 4 |
| DIAL 5 | J | K | L | % | 5 |
| DIAL 6 | M | N | O | ^ | 6 |
| DIAL 7 | P | Q | R | S | 7 |
| DIAL 8 | T | U | V | * | 8 |
| DIAL 9 | W | X | Y | Z | 9 |
| DIAL * | : | = | [ | ] | * |

The # button can be used for the following special characters:
#, space, &, !, :, ?, ., ,, %, $, -, <, >, /, =, [, ], @, ^, (, ), _, +, {, }, |, ; , ", →, '. \.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 104.<br>Display shows: | [201] STN NAME |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] STN NAME<br>_ |
| 3. Enter the station name using the procedure described above and press Right Soft button to return to step 2.<br>4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | [205] STN NAME<br>SAM SMITH |

## RELATED ITEMS

NONE

# [105] STATION SPEED DIAL

Allows the system administrator or technician to assign phone numbers to a station's personal speed dial locations.

## CONDITIONS

Each station may have up to 50 locations (or bins) assigned to it in MMC 606 (Assign Speed Block). The speed dial bins are numbered 00~49. Each assigned phone number consists of a trunk or trunk group access code followed by a separator and up to 24 digits to be dialled. These dial digits may consist of 0~9, * and #. If the system recognizes a valid trunk or trunk group access number, it will automatically insert the separator.

## DEFAULT DATA

NONE

## PROGRAM BUTTONS

| | |
|---|---|
| B | Used to insert a flash code 'F' |
| C | Used to insert a pause code 'P' |
| D | Used to insert a pulse/tone conversion code 'C' |
| E | Used to mask/unmask following digits (shows as '['or ']') |
| F | Used to enter name for speed dial bin (see MMC 106) |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 105.<br>Display shows: | [201] SPEED DIAL<br>00: |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] SPEED DIAL<br>00: |
| If selected station has no speed dial bins, the display will be as shown and a new station may be selected. | [205] SPEED DIAL<br>SPDBLK NOT EXIST |
| 3. Dial location number.(e.g., 05)<br>OR<br>Press Volume button to select location and press Right Soft button to move cursor. | [205] SPEED DIAL<br>05:_ |

4. Enter trunk access code (e.g., 9) followed by the number to be dialled (e.g., 4264100)
   OR
   Press Right Soft button to return to step 2.
   OR
   Press Left Soft button to return to step 3.
   Press Hold button to clear an entry.
   If an error is made, use VOLUME DOWN arrow to step back.

```
[205] SPEED DIAL
05:9-4264100_
```

5. Press 'F' button to access MMC 106 (Station Speed Dial Name) to enter a name for speed dial.
   OR
   Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 106 | STATION SPEED DIAL NAME |
| MMC 606 | ASSIGN SPEED BLOCK |

# [106] STATION SPEED DIAL NAME

Allows a name up to 11 characters to be entered for each personal speed dial location. This allows speed dial numbers to be selected by name when the directory dial feature is used.

## ENTERING CHARACTERS

Refer to 'ENTERING CHARACTERS' in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 106.<br>Display shows: | [201] SPEED NAME<br>00: |
| 2. Dial station number.(e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] SPEED NAME<br>00: |
| If selected station has no speed dial bins, the display will be as shown and a new station may be selected. | [305] SPEED NAME<br>SPDBLK NOT EXIST |
| 3. Dial speed dial location (e.g., 01)<br>OR<br>Press Volume button to scroll through location numbers and press Right Soft button to move cursor. | [205] SPEED NAME<br>01:_ |
| 4. Enter the location name using the procedure described above and press Right Soft button to return to step 2. | [205] SPEED NAME<br>01:SAM SMITH |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 105 | STATION SPEED DIAL |
| MMC 606 | ASSIGN SPEED BLOCK |

# [107] KEY EXTENDER

Use this program to view the programmable buttons assigned to stations. In addition, it allows the system administrator to assign key extenders to some keys to make a general access feature key more specific. The feature keys that can have extenders are listed below.

| Key | Feature | Extender |
|---|---|---|
| AB | Absence | Extension number |
| ACC | Account code bin | 000-999 |
| BOSS | Boss and Secretary | 1-4 |
| CR | VM Call Record | Mailbox number |
| CS | UCD Call Status | UCD group number |
| DIR | Directory dial by name type | 1-3 |
| DP | Direct Pickup | Extension or station group number |
| DS | Direct Station Select | Station number |
| FWRD | Call Forward | 0-5 |
| GPIK | Group Pickup | 01-99 |
| IG | In/Out of Group | Station group number |
| MMPG | Meet Me Page | 0-9, * |
| MW | Message Waiting | Extension or station group number |
| MS | Manual Signalling | Extension or station group number |
| PAGE | Page | 0-9, * |
| PARK | Park Orbits | 0-9 |
| PMSG | Programmed Station Messaging | 01-20 |
| RP | Ring Plan | 1-6 |
| RSV | Room Status View (Hotel Application only) | 1-5 |
| SG | Station Group | Station group number |
| SP | UCD Supervisor | UCD group number |
| SPD | Speed Dial | Personal: 00-49<br>System: 500-999 |
| VG | SVM-800 Group Message | Station group number |
| VM | VM Memo | Extension or station group number |
| VT | Voice Transfer | VM group number |

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 107.<br>Display shows first station: | [201] EXT (MAST)<br>01:CALL1→ |
| 2. Dial station number (e.g., 205)<br>OR<br>Use Volume button to scroll through station numbers and press Right Soft button to move the cursor. | [205] EXT (MAST)<br>01:CALL1→ |
| 3. Enter key number (e.g., 18)<br>OR<br>Use Volume button to scroll through keys and use Right Soft button to move the cursor.<br>OR<br>Press the key to be programmed. | [205] EXT (MAST)<br>18:DS→<br>[205] EXT (MAST)<br>18: DS→ DS_ |
| 4. Dial extender according to above table.<br>System will return to step 3. | [205] EXT (MAST)<br>18: DS→ DS207 |
| 5. Press Left Soft button to return to step 2<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |


NOTE

If the Right Soft button will not move the cursor to the right, you are attempting to add an extender to a key that cannot have one.

## RELATED ITEMS

| | |
|---|---|
| MMC 720 | COPY KEY PROGRAMMING |
| MMC 721 | SAVE STATION KEY PROGRAMMING |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |
| MMC 724 | DIAL NUMBERING PLAN |

# [108] STATION STATUS

This is a READ-ONLY MMC. Displays the following attributes of a station port.

| No | Status | Description |
|---|---|---|
| 0 | PORT NO | Chassis(1-3)/Slot(1-9)/Port(1-16) |
| 1 | TYPE | Phone Type |
| 2 | PICKUP GROUP | None, 01-99 |
| 3 | SGR | Station Group Number |
| 4 | BOSS-SECR | None, 1-4 |
| 5 | PAGE | None, Page Zone (0-4, * ) |
| 6 | COS 1, COS 2 | COS (01-30) per Ring Plan (01-06) |
| 9 | TENANT GROUP | Tenant Group Number (1 or 2) |

## DEFAULT DATA

PORT #: FOLLOWS HARDWARE POSITION
TYPE: DEPENDENT ON CONNECTED PHONE
PICKUP GRP: NONE
SGR: NONE
BOSS-SECR: NONE
PAGE ZONE: NONE
COS NUMBER: 01 IN ALL RING PLANS
TENANT GRP: 1

## ACTION

1. Press Transfer button and enter 108.
   Display shows first station:

   DISPLAY:
   ```
   [201] STN STATUS
   PORT:C1-S3-P01
   ```

2. Dial station number.(e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [205] STN STATUS
   PORT:C1-S3-P05
   ```

3. Dial 0~9 to select station status type.
   OR
   Press Volume button to select status and press Right Soft button to return to step 2.

   DISPLAY:
   ```
   [205] STN STATUS
   PICKUP GROUP:01
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 301 | ASSIGN STATION COS |
| MMC 302 | PICKUP GROUPS |
| MMC 303 | ASSIGN BOSS/SECRETARY |
| MMC 601 | ASSIGN STATION GROUP |
| MMC 604 | ASSIGN STATION TO PAGE ZONE |

# [109] DATE DISPLAY

Allows the system administrator or technician to select the date and time display mode on a per-station basis or system wide.

| No | Mode | Description |
|---|---|---|
| 0 | COUNTRY | Sets overall display format and has two options:<br>0 = ORIENTAL MM/DD DAY HH:MM<br>1 = WESTERN DAY DD MON HH:MM |
| 1 | CLOCK | Sets format of clock display and has two options:<br>0 = 12 HOUR Displays 1 P.M. as 01:00<br>1 = 24 HOUR Displays 1 P.M. as 13:00 |
| 2 | DISPLAY | Sets format of DAY and MON display and has two options:<br>0 = UPPER CASE Displays Friday as FRI and March as MAR<br>1 = LOWER CASE Displays Friday as Fri and March as Mar |

## CONDITIONS

NONE

## DEFAULT DATA

COUNTRY: WESTERN
CLOCK: 12 HOUR
DISPLAY: LOWER CASE

## ACTION

1. Press Transfer button and enter 109.
   Display shows:

   DISPLAY:
   ```
   [201] DAY FORMAT
   COUNTRY:WESTERN
   ```

2. Dial station number.(e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.
   OR
   Select all stations.

   DISPLAY:
   ```
   [205] DAY FORMAT
   COUNTRY:WESTERN
   ```
   ```
   [ALL] DAY FORMAT
   COUNTRY:?
   ```

3. Dial 0~2 to select mode.
   OR
   Press Volume button to scroll through modes and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [205] DAY FORMAT
   COUNTRY:ORIENTAL
   ```

4. Press Volume button to scroll through formats and press Right Soft button to return to step 2.

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 505 | ASSIGN DATE AND TIME |

# [110] STATION ON/OFF

Allows the system administrator to set any of the phone features listed below.

| No | Feature | Default | Description |
|---|---|---|---|
| 00 | AUTO HOLD | OFF | Automatically places an existing Trunk Line call on hold if a CALL key, trunk key or trunk route key is pressed during that call. |
| 01 | AUTO TIMER | ON | Automatically starts the stopwatch timer during a Trunk Line call. |
| 02 | HEADSET USE | OFF | When ON, this feature disables the hook switch allowing a headset user to answer all calls by pressing the ANS/RLS button or SEND and END buttons. |
| 03 | HOT KEYPAD | ON | When ON, this feature allows you to dial directory numbers without having to first lift the handset or press the Speaker button. |
| 04 | KEY TONE | ON | Allows you to hear a slight tone when pressing buttons on phone. |
| 05 | PAGE REJOIN | ON | Allows you to hear the remaining part of page announcements if phone becomes free during a page. |
| 06 | RING PREF. | ON | When OFF, requires you to press the fast flashing button to answer a ringing call after lifting the handset. |
| 07 | CALL COST | OFF | When ON, the cost of the call in progress will show in the upper right corner of the phone display instead of duration of the call. |
| 08 | AUTO CAMPON | OFF | When ON, phone users can allow intercom calls to camp-on to other phones without having to press a CAMP-ON key. |
| 09 | AME BGM | OFF | This feature selects whether a station using Answer Machine Emulation will hear their personal greeting or BGM while callers are listening to the personal greeting.<br>A BGM source must be selected for this to work. |
| 10 | AME PASSCODE | OFF | When ON, station users who have AME set must enter their station password to listen to messages being left. |
| 11 | DISP SPDNAME | OFF | When ON, the speed dial name associated with a speed dial number is displayed on a phone equipped a LCD display when using speed dial. |
| 12 | CID REVW ALL | ON | When ON, saves information on all calls that ring at an extension, When OFF, saves information only on calls that were not answered at the extension or were answered by voice mail. |
| 13 | SECURE OHVA | ON | When ON, OHVA announcements will be heard on the handset. When OFF, OHVA announcements will be heard over the phone speaker. |

| No | Feature | Default | Description |
|---|---|---|---|
| 14 | NOT CONT.CID | ON | When OFF, the Caller ID will be displayed for the duration of the call. When ON, displays timer for duration of call (if AUTO TIMER also set on). |
| 15 | AUTO ANS CO | OFF | When ON, keyset will automatically answer outside calls through the speakerphone. For this to work, the keyset must be set to Auto Answer mode in MMC 103. Calls to groups cannot be auto-answered. |
| 16 | ENBLOCK 2LCD | OFF | Enables Enbloc dialling for 2-Line LCD phones. This option only works when 2 LINE ENBLOCK option is enabled in MMC 861. |
| 17 | STN NO RING | OFF | When ON, no tones will be heard when phone rings. |

## DEFAULT DATA

SEE DESCRIPTION
SOME OPTIONS DEPEND ON COUNTRY

## ACTION

1. Press Transfer button and enter 110.
   Display shows:

   DISPLAY:
   ```
   [201] STN ON/OFF
   AUTO HOLD   :OFF
   ```

2. Dial the station number (e.g. 205)
   OR
   Press Volume button to select station and press the Right Soft button to move the cursor.
   OR
   Select all stations

   DISPLAY:
   ```
   [205] STN ON/OFF
   AUTO HOLD   :OFF
   ```

3. Dial option number from above list (e.g. 03
   OR
   Press Volume button to select option and press the Right Soft button to move the cursor.

   DISPLAY:
   ```
   [205] STN ON/OFF
   HOT KEYPAD  :ON
   ```

4. Dial 1 for ON or 0 for OFF.
   OR
   Press Volume button to select ON or OFF.
   Press Left or Right Soft button to return to step 2.
   OR
5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

   DISPLAY:
   ```
   [201] STN ON/OFF
   HOT KEYPAD  :OFF
   ```

## RELATED ITEMS

| | |
|---|---|
| MMC 301 | ASSIGN STATION COS |
| MMC 701 | ASSIGN COS CONTENTS |

# [111] PHONE RING TONE

Allows the system administrator or technician to select the ring tone heard at each phone. Eight ring tones are available. A short tone burst of the selection will be heard when the dial keypad is pressed.

## DEFAULT DATA

FREQUENCY: 5

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 111.<br>Display shows: | [201] RING TONE<br>SELECTION 5 |
| 2. Dial phone number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] RING TONE<br>SELECTION 5 |
| OR<br>Select all stations | [ALL] RING TONE<br>SELECTION ? |
| 3. Dial 1~8 to select ring tone.<br>OR<br>Press Volume button to select ring tone and press Right Soft button to move cursor. | [205] RING TONE<br>SELECTION 5 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 114 | PHONE VOLUME |
| MMC 318 | DISTINCTIVE RINGING |

# [112] ALARM REMINDER CLOCK

Allows the system administrator or technician to set or change the alarm clock/appointment reminder feature for any station. Three alarms may be set for each station and each alarm may be defined as a one-time or TODAY alarm, or as a DAILY alarm. The TODAY alarm is automatically cancelled after it rings, while the DAILY alarm rings every day at the same time. Alarm numbers are 1, 2 and 3. In the case of Station Pair assignments (MMC 740) the alarm only rings the station that is programmed and does not ring the paired station.

| No | Type | Description |
|---|---|---|
| 0 | NOTSET | No alarm |
| 1 | TODAY | Alarm once only |
| 2 | DAILY | Alarm daily at set time |

## DEFAULT DATA

ALARMS ARE NOTSET

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 112.<br>Display shows: | [201] ALM CLK(1)<br>HHMM:→NOTSET |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button. | [205] ALM CLK(1)<br>HHMM:→NOTSET |
| 3. Dial 1~3 to select alarm (e.g., 1)<br>OR<br>Press Volume button to select alarm and press Right Soft button. | [205] ALM CLK(1)<br>HHMM:→NOTSET |
| 4. Enter alarm time in 24-hour clock format.<br>(e.g., 1300 for 1pm) | [205] ALM CLK(1)<br>HHMM:1300→NOTSET |
| 5. Dial entry from above list for alarm type (e.g., 2)<br>OR<br>Press Volume button to select alarm type and press Right Soft button to move cursor and return to step 2. | [205] ALM CLK(1)<br>HHMM:1300→DAILY |

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 116 ALARM AND MESSAGE

# [113] VIEW MEMO NUMBER

Used to enter memos (up to 13 characters) on a station. Up to three memos can be entered, depending on your system. MMC 116 (Alarm and Message) can be programmed to remind the keyset user to read the memo(s).

## ENTER CHARACTERS

Refer to 'ENTER CHARACTERS' in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 113.<br>Display shows: | [201] VIEW MEMO<br>1: |
| 2. Dial the keyset number (e.g., 205)<br>OR<br>Press VOLUME keys to select station and press RIGHT soft key to move cursor | [205] VIEW MEMO<br>1: |
| 3. Dial memo number (1–3)<br>OR<br>Press VOLUME keys to select and press RIGHT soft key to move cursor | [205] VIEW MEMO<br>1:_ |
| 4. Enter memo via dial keypad. | [205] VIEW MEMO<br>1:CALL TOM |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [114] PHONE VOLUME

Allows the system administrator to set the ring volume, off-hook ring volume, handset receive volume, speaker volume, background music volume and page volume for any or all phones. Station users can set their own phones if required.

| No | Type | Description |
|---|---|---|
| 0 | RING VOLUME | This is the volume setting for the phone ringer. There are eight volume levels: level 1 is the lowest and level 8 the highest. |
| 1 | OFF-RING VOL | This is the volume of the alert tone that tells you there is a call camped on to your phone. There are eight volume levels: level 1 is the lowest and level 8 the highest. |
| 2 | HANDSET VOL | This is the volume setting for conversations on the handset receiver. There are eight volume levels: level 1 is the lowest and level 8 the highest. |
| 3 | SPEAKER VOL | This is the receive volume setting for conversations on the speaker phone of a phone. There are 16 volume levels: level 1 is the lowest and level 16 the highest. |
| 4 | BGM VOLUME | This is the volume you will hear background music over the phone speaker at when your phone is idle and BGM is turned on. There are 16 volume levels: level 1 is the lowest and level 16 the highest. |
| 5 | PAGE VOLUME | This is the volume you will hear internal page over the phone speaker when your phone is idle and BGM is turned on. There are 16 volume levels: level 1 is the lowest and level 16 the highest. |

## DEFAULT DATA

RING VOLUME: 4
OFF-HOOK RING VOLUME: 4
HANDSET VOLUME: 4
SPEAKER VOLUME: 13
BGM VOLUME: 13
PAGE VOLUME: 13

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 114.<br>Display shows: | [201] STN VOLUME<br>RING VOLUME :4 |
| 2. Dial phone number (e.g., 205) | [205] STN VOLUME<br>RING VOLUME :4 |
| 3. Dial volume type (e.g. 3)<br>OR<br>Press Volume button to select volume type and press RIGHT soft key to move cursor | [205] STN VOLUME<br>SPEAKER VOL :13 |
| 4. Press Volume button to select volume. (You will hear a brief tone for the volume you select) | [205] STN VOLUME<br>SPEAKER VOL :08 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 111 PHONE RING TONE

# [115] SET PROGRAMMED MESSAGE

Allows the system administrator to set a programmed message at any or all display phones. There are 20 messages (01-20) available. The last five message can be modified by each phone user.

## CONDITIONS

These messages are as set up in MMC 715, PROGRAMMED STATION MESSAGE.

## DEFAULT DATA

NO MESSAGES SELECTED

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 115.<br>Display shows: | [201] PGMMSG(00)<br>CANCEL PGM MSG |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] PGMMSG(00)<br>CANCEL PGM MSG |
| OR<br>Select all stations. | [ALL] PGMMSG(??) |
| 3. Dial message number (e.g., 05)<br>OR<br>Press Volume button to select message and press Right Soft button to return to step 2.<br>OR<br>Dial 00 to cancel an existing message | [205] PGMMSG(05)<br>PAGE ME |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 715 | PROGRAMMED STATION MESSAGE |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [116] ALARM AND MESSAGE

Allows the system administrator or technician to set or change the alarm clock/appointment reminder feature for any station. Three alarms may be set for each station and each alarm may be defined as a one-time or TODAY alarm, or as a DAILY alarm.

The TODAY alarm is automatically cancelled after it rings, while the DAILY alarm rings every day at the same time. It is also possible to set a message to display when the alarm is sounded.

| No | Type | Description |
|---|---|---|
| 0 | NOTSET | No alarm |
| 1 | TODAY | Alarm once only |
| 2 | DAILY | Alarm daily at set time |

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

ALARMS ARE NOTSET

## ACTION

1. Press Transfer button and enter 116.
   Display shows:

   DISPLAY: `[201] ALM REM(1)` / `HHMM:→NOTSET`

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.
   OR
   Select all stations.

   DISPLAY: `[205] ALM REM(1)` / `HHMM:→NOTSET`

   DISPLAY: `[ALL] ALM REM(1)` / `HHMM:→NOTSET`

3. Dial 1~3 to select alarm (e.g., 2)
   OR
   Press Volume button to select alarm and press Right Soft button to move cursor.

   DISPLAY: `[205] ALM REM(2)` / `HHMM:→NOTSET`

4. Enter alarm time in 24-hour clock format.
   (e.g., 1300 for 1pm)
   Display will automatically advance to step 5.

```
[205] ALM REM(2)
HHMM:1300→NOTSET
```

5. Dial valid entry from above list for alarm type.
   (e.g., 2)
   OR
   Press Volume button to select alarm type and press Right Soft button to move cursor.

```
[205] ALM REM
HHMM:1300→DAILY
```

6. Enter message and press Right Soft button to return to step 2.

```
[205] ALM REM
Meeting
```

7. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 112 ALARM REMINDER CLOCK

# [117] EDIT TEXT MESSAGE

Allows the system administrator or technician to set or change text messages for any station. One station can use up to 10 text messages.

## CONDITIONS

Only stations allowed to use text messages in MMC 611 can be selected here. Large LCD phones are automatically allowed.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

BLANK MESSAGE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 117.<br>Display shows: | [201] TXTMSG(01)<br>Blank Message |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] TXTMSG(01)<br>Blank Message |
| 3. Dial 01~10 to select message.<br>OR<br>Press Volume button to select message and press Right Soft button to move cursor. | [205] TXTMSG(02)<br>Blank Message |
| 4. Enter message and press Right Soft button to return to step 3. | [205] TXTMSG(02)<br>SAME TIME |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 611 ALLOW TEXT MESSAGING

# [118] CONFERENCE GROUP

Allows the system administrator or technician to set conference groups for any station. A station is allowed up to five conference groups, and each group can include 4 members (excluding the station itself). Names can be allocated to groups.

Conference members can be other stations, station groups, and external telephone numbers (which must include the outgoing access code).

## CONDITIONS

Only stations set to use conference groups in MMC 612 can be selected here. Large LCD phones are automatically set to use conference groups.

## ENTERING CONFERENCE GROUP NAME

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 118.<br>Display shows: | [201] GRP(1)NAME |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] GRP(1)NAME |
| 3. Dial 1~5 to select group.<br>OR<br>Press Volume button to select group and press. Right Soft button to move cursor. | [205] GRP(1)NAME |
| 4. Dial 0 to select name or dial 1~4 to select member.<br>OR<br>Press Volume button to select name or member and press Right Soft button to move cursor.<br>OR<br>Press Left Soft button to return to step 3. | [205] GRP(1)MBR1<br>NONE |
| 5. Enter conference member dial number and press Right Soft button to return to step 4. | [205] GRP(1)MBR1<br>9-2794296 |

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 612 ALLOW GROUP CONFERENCE

# [119] CALLER ID DISPLAY

Allows the technician to set the individual station display preference on a per-station basis. Caller ID or CLI can be selected to either show the name, number first, or no display depending on the type of call. Caller ID or CLI displays have the following options:

| No | Type | Description |
|---|---|---|
| 0 | NO DISPLAY | No Caller ID or CLIP data will be displayed. |
| 1 | NUMBER FIRST | The Caller ID or CLIP number received from the Central Office will be displayed first. |
| 2 | NAME FIRST | The Caller ID or CLIP name received will be displayed first. In the case of CLIP the number must be programmed in the CLIP translation table(MMC 728). CLIP does not provide names. |

## DEFAULT DATA

NUMBER FIRST

## ACTION

1. Press Transfer button and enter 119.
   Display shows first station:

   DISPLAY: `[201] CID DISP`
   `NUMBER FIRST`

2. Enter station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button

   DISPLAY: `[205] CID DISP`
   `NUMBER FIRST`

   OR
   Select all stations

   DISPLAY: `[ALL] CID DISP`
   `NUMBER FIRST`

3. Dial display option 0, 1 or 2 (e.g., 2)
   OR
   Press Volume button to select option and press Right or Left Soft button to return to step 2.

   DISPLAY: `[205] CID DISP`
   `NAME FIRST`

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 312 | ALLOW CALLER ID |
| MMC 608 | ASSIGN REVIEW BLOCK |
| MMC 728 | CID TRANSLATION TABLE |

# [120] LARGE LCD OPTIONS

Allows the system administrator to set any of the following options for large LCD phones.

| No | Option | Description |
|---|---|---|
| 0 | IDLE DISPLAY | Sets whether to display 'CALENDAR' or 'INFORMATION' on LCD when idle |
| 1 | DS KEY DISPLAY | Sets whether to display extension numbers or names for 'DS' keys on LCD |
| 2 | DIAL MODE | Sets dial mode to ENBLOCK or OVERLAP |
| 3 | CONV DISP | *SOFT MENU FIRST*<br>If selected, features assigned to keys are displayed when SCREEN key is pressed while on a call.<br>*AOM KEY FIRST*<br>If selected, extensions assigned to keys are displayed when SCREEN key is pressed while on a call. |
| 4 | CALENDAR | Sets whether to display PREVIOUS screen or CALENDAR screen on LCD when idle |
| 5 | AOM CURSOR | Sets cursor position on AOM menu screen (01~99, PREV POSITION) |

## DEFAULT DATA

IDLE DISPLAY: CALENDAR
DS KEY DISPLAY: TEL NUMBER
DIAL MODE: ENBLOCK

## ACTION

1. Press Transfer button and enter 120.
   Display shows:

   DISPLAY: `[201] IDLE DISP CALENDER`

2. Enter station number (e.g., 203)
   OR
   Press Volume button to scroll through stations and press Right Soft button to select a station.
   OR
   Select all stations and press the Right Soft button.

   DISPLAY: `[203] IDLE DISP CALENDER`

   DISPLAY: `[ALL] IDLE DISP CALENDER`

3. Dial the option number from above list (e.g., 1)
   OR
   Press Volume button to select the option and press Right Soft button to move the cursor.

   DISPLAY: `[203] DS KEY DSP TEL NUMBER`

4. Press Volume button to select display type and press Right Soft button.

```
[203] DS KEY DSP
EXT NAME
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 719 IDLE DISPLAY

# [121] PHONE LANGUAGE

Allows the system administrator to assign an LCD display based on the user's own language.

| No. | Language | No. | Language |
|---|---|---|---|
| 00 | ENGLISH | 06 | ITALY |
| 01 | GERMAN | 07 | SPANISH |
| 02 | PORTUGAL | 08 | SWEDISH |
| 03 | NORSK | 09 | SPANISH/USA |
| 04 | DANISH | 10 | FRENCH/CANADA |
| 05 | DUTCH | 11 | FINNISH |

## DEFAULT DATA

ENGLISH

## ACTION

## DISPLAY

1. Press Transfer button and enter 121.
   Display shows:

   `[201] LANGUAGE`
   `ENGLISH`

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and use Right Soft button to move cursor.

   `[205] LANGUAGE`
   `ENGLISH`

   OR
   Select all stations.

   `[ALL] LANGUAGE`
   `?`

3. Dial 00~10 for language required.
   OR
   Press Volume button to make selection and press Right Soft button.

   `[205] LANGUAGE`
   `GERMAN`

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [122] NEWS DISPLAY SPEED

Used to set the Smart News display speed between 0300 mS (fastest) and 1 sec (slowest). This timer is related to the Smart News PC Application Package.

## DEFAULT DATA

03 (0300 mS)

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 122.<br>Display shows first station: | [201] CALL SPEED<br>03→ |
| 2. Enter station number (e.g., 205)<br>OR<br>Press Volume button to scroll through stations and press Right Soft button to select a station.<br>OR<br>Select all stations | [205] CALL SPEED<br>03→ |
| 3. Dial speed option (03~10) | [205] CALL SPEED<br>03→04 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [125] EXECUTIVE STATE

Allows the system administrator or technician to set an executive station's options, as follows.

| No | Option | Description |
|---|---|---|
| 0 | EXEC STATE | When working with EASYSET, the state of the executive station can be displayed (e.g. IN A MEETING) |
| 1 | STATE(IN) | If EXEC STATE set to OTHERS(IN), EASYSET displays this message. |
| 2 | STATE(OUT) | If EXEC STATE set to OTHERS(OUT), EASYSET displays this message. |
| 3 | ANSWER MODE | Set answer mode for executive/secretary calling: Ring, Auto Answer, Voice Announce. (Refer to MMC 103 for a description of answer modes.) |

## ENTER CHARACTERS

Refer to 'ENTER CHARACTERS' in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

## ACTION / DISPLAY

1. Press Transfer button and enter 125.
   Display shows:

   ```
   [201] EXEC STATE
   IN THE ROOM
   ```

2. Dial executive station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

   ```
   [205] EXEC STATE
   IN THE ROOM
   ```

3. Dial 0~3 to select option (see table above).
   OR
   Press Volume button to make selection and press Right Soft button.

   ```
   [205] EXEC STATE
   IN THE ROOM
   ```

4. Dial 0~9 to select state (e.g. IN A MEETING)
   OR
   Press Volume button to make selection and press Right Soft button.

   ```
   [205] EXEC STATE
   IN A MEETING
   ```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [200] OPEN CUSTOMER PROGRAMMING

Used to open (enable) and close (disable) customer-level programming. If programming is not opened and an attempt is made to access a system MMC, the error message [NOT PERMIT] will be displayed. A four digits passcode is required to access this MMC. Each digit can be 0-9. When opened, this MMC enables access to all MMCs allowed in MMC 802, Customer Access MMC Number.

| No | Mode | Description |
|---|---|---|
| 0 | DISABLE | Open (enable) customer-level programming |
| 1 | ENABLE | Close (disable) customer-level programming |

## DEFAULT DATA

DISABLE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 200.<br>Display shows: | ENABLE CUS.PROG.<br>PASSCODE: |
| 2. Enter passcode. | ENABLE CUS.PROG.<br>PASSCODE: |
| Correct code shows. | ENABLE CUS.PROG.<br>DISABLE |
| Incorrect code shows. | ENABLE CUS.PROG.<br>PASSCODE ERROR |
| 3. Press Volume button arrow key to select ENABLE or DISABLE and press Right Soft button.<br>OR<br>Dial 1 for ENABLE or 0 for DISABLE. | ENABLE CUS.PROG.<br>ENABLE |
| 4. Press Speaker button to advance MMC entry level and press Volume button to select MMC.<br>OR<br>Enter MMC number and press Right Soft button to enter MMC. | 201:CUS.PASSCODE<br>SELECT PROG. ID |
| 5. Press Transfer button to exit. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 201 | CHANGE CUSTOMER PASSCODE |
| MMC 501 | SYSTEM-WIDE TIMERS |
| MMC 802 | CUSTOMER ACCESS MMC NUMBER |

# [201] CHANGE CUSTOMER PASSCODE

Used to change the passcode allowing access to MMC 200, Open Customer Programming, from its current value.

## CONDITIONS

- The passcode is four digits long. Each digit can be 0-9.
- The current (old) passcode is required for this MMC.

## DEFAULT DATA

PASSCODE: 1234

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 201. | CUST. PASSCODE<br>NEW CODE:_ |
| 2. Enter new passcode via dial keypad. (maximum four digits) | CUST. PASSCODE<br>NEW CODE:**** |
| 3. Verify new passcode via dial keypad. | CUST. PASSCODE<br>VERIFY :**** |
| Passcode verified (go to step 4)<br>OR<br>Passcode failure (return to step 2) | CUST. PASSCODE<br>VERIFY :SUCCESS<br><br>CUST. PASSCODE<br>VERIFY :FAILURE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 200 OPEN CUSTOMER PROGRAMMING

# [202] CHANGE FEATURE PASSCODE

Used to change the passcodes for the following features.

| No | Feature | Description |
|---|---|---|
| 0 | RING PLAN | The passcode required to place the system in different ring plans (RP) or change the ring time override (RTO). |
| 1 | DISA ALARM | The passcode required to clear a DISA ALARM generated when the number of DISA attempts are exceeded. |
| 2 | ALARM CLR | The passcode required to clear an ALARM generated by the disconnection of BI-PMS SIO. (Hotel Application only). |
| 5 | DELETE | This passcode is used to allow items to be deleted from a room bill. (Hotel Application only). |
| 6 | WLAN REGST | The passcode required to register a WIP phone. |

## CONDITIONS

- The passcode is four digits long. Each digit can be 0~9.
- The current passcode is required for this MMC.

## DEFAULT DATA

RING PLAN: 0000
DISA ALARM: 5678
ALARM CLR: 8765
DECT REGST: 4321
DELETE: 9999
WLAN REGST: 0000

## ACTION

1. Press Transfer button and enter 202.
   Display shows:

   DISPLAY:
   ```
   CHANGE PASSCODE
   RING PLAN :0000
   ```

2. Press Volume button to make selection and press Right Soft button to move cursor to passcode entry.

   DISPLAY:
   ```
   CHANGE PASSCODE
   DISA ALARM :5678
   ```

3. Enter new passcode via digits from dial keypad.

   DISPLAY:
   ```
   CHANGE PASSCODE
   DISA ALARM :9999
   ```

   Press Right Soft button to return to step 2.
   Continue to change other passcodes.

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 410 | ASSIGN DISA TRUNK |
| MMC 507 | ASSIGN RING PLAN TIME |

# [203] ASSIGN UA DEVICE

Assigns ringing device to be accessed when a Universal Answer (UA) key is pressed or the UA pickup code is dialled. UA assignment is made in MMC 601, Assign Station Group, for a group and then the group is entered here. The device type is automatically determined by the directory number (DN) entered.


NOTE

Only one of the above options can be selected. If the ability to ring more than one item (e.g., all four external page zones) is required, a station group containing all four zone codes must be created.

| Ringing Device | Description |
|---|---|
| NONE (NO UA) | No phone number |
| STATION | Station number |
| STN GROUP | Station group number |
| RING PAGE | External speaker phone number |
| COMMON BELL | Common bell phone number |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 203.
   Display shows current assignment:

   DISPLAY:
   ```
   ASSIGN UA PORT
   NONE-NO UA
   ```

2. Dial DN of UA device (e.g., 205)
   OR
   Use Volume buttons to scroll through available devices.

   DISPLAY:
   ```
   ASSIGN UA PORT
   205 -STATION
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 204 | COMMON BELL CONTROL |
| MMC 601 | ASSIGN STATION GROUP |
| MMC 605 | ASSIGN EXTERNAL PAGE ZONE |

# [204] COMMON BELL CONTROL

Determines whether the common bell relay contacts have an interrupted or continuous closure when activated. If interrupted is chosen, the relay follows an internal Trunk Line ring pattern of one second closed followed by three seconds open.

## CONDITIONS

- When the common bell is not used for night time ring, the common bell must be set to a station group so that all stations in the group ring.

## DEFAULT DATA

CONTINUOUS

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 204.<br>Display shows current setting: | [3801]COM. BELL<br>CONTINUOUS |
| 2. Dial common bell number.<br>OR<br>Press Volume button to make selection of common bell numbers and press Right Soft button to advance cursor. | [3801]COM. BELL<br>CONTINUOUS |
| 3. Dial 0 for continuous or 1 for interrupted operation.<br>OR<br>Use Volume button to scroll through options and press Right Soft button to return to step 2. | [3802]COM. BELL<br>INTERRUPTED |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 203 | ASSIGN UA DEVICE |
| MMC 601 | ASSIGN STATION GROUP |

# [205] ASSIGN LOUD BELL

Designates the station that controls the loud bell ring output of a MIS module. (Each MIS module provides one loud bell port.) The loud bell will follow the ring cadence of the designated station.

## CONDITIONS

Only a station can be assigned to control the loud bell, not a station group.

## DEFAULT DATA

UNASSIGNED

## ACTION

1. Press Transfer button and enter 205.
   Display shows current setting.

   DISPLAY:
   ```
   [3901]LOUD BELL
   RING PAIR:NONE
   ```

2. Dial loud bell number (e.g., 3902)
   OR
   Use Volume button to scroll through loud bell numbers and press Right Soft button to move the cursor.

   DISPLAY:
   ```
   [3902]LOUD BELL
   RING PAIR:NONE
   ```

3. Enter station number (e.g., 201)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

   DISPLAY:
   ```
   [3902]LOUD BELL
   RING PAIR:201
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [206] BARGE-IN TYPE

Sets the type of barge-in that is permitted.

| No | Type | Description |
|---|---|---|
| 0 | NO BARGE-IN | Barge-in feature is unavailable regardless of a station's barge-in status. |
| 1 | WITH TONE | Barge-in will have an intrusion tone and display at the station barged-in on. |
| 2 | WITHOUT TONE | Barge-in is allowed. There is no barge-in tone or display at the station barged-in on and the barging-in station will be muted. |

## DEFAULT DATA

NO BARGE-IN

## ACTION

1. Press Transfer button and enter 206.
   Display shows:

   DISPLAY:
   ```
   BARGE IN TYPE
   NO BARGE IN
   ```

2. Dial 0-2 to select barge-in type (e.g., 2)
   OR
   Press Volume button to select barge-in type and press Right Soft button.

   DISPLAY:
   ```
   BARGE IN TYPE
   WITHOUT TONE
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 301 | ASSIGN STATION COS |
| MMC 701 | ASSIGN COS CONTENTS |

# [207] ASSIGN VM/AA PORT

Enables SLI ports to be designated as NORMAL or VMAA. VMAA ports receive digits designated in MMC 726 (VM/AA Options) and also receive a true disconnect signal on completion of a call. Only SLI modules, not keyset daughterboards, support disconnect signal. Do not make VMAA ports data; this will return them to a single line port and stop voice mail integration. VMAA ports have the equivalent of data protect written in the program and are protected against tones.


NOTE

This MMC is not used to assign voice mail module ports. Voice mail module ports are assigned as voice mail ports automatically when the system detects an SVM-400 or SVMi-20E module.

## DEFAULT DATA

NORMAL PORT

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 207.<br><br>Display shows: | [209] VMAA PORT<br>NORMAL PORT |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] VMAA PORT<br>NORMAL PORT |
| 3. Dial 1 or 0 to select port type.<br>(1:VMAA, 0:NORMAL)<br>OR<br>Press Volume button to select type and press Right Soft button. | [205] VMAA PORT<br>VMAA PORT |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 726 VM/AA OPTIONS

# [208] ASSIGN RING TYPE

Allows programming of single lines to have ICM ringing, Trunk Line ringing and data secure. With the many types of external ringing devices, all configurations can be met. All devices will also have a positive disconnect signal. Do not make VM/AA ports data; this will return them to a single line port and stop voice mail integration.

| No | Type | Description |
|---|---|---|
| 0 | ICM RING | Follows normal SLI ring cadence. |
| 1 | CO RING | Follows Trunk line ring cadence. |
| 2 | DATA RING | Follows Trunk line ring cadence and does not support off-hook ring. |

## DEFAULT DATA

ICM RING

## ACTION

1. Press Transfer button and enter 208.
   Display shows:

   DISPLAY:
   ```
   [209] RING TYPE
   ICM RING
   ```

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [205] RING TYPE
   ICM RING
   ```

3. Dial 1, 2 or 0 to select port type (e.g., 2)
   OR
   Press Volume button to select type and press Left or Right Soft button to return to step 2 above.

   DISPLAY:
   ```
   [205] RING TYPE
   DATA RING
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [209] ASSIGN ADD-ON MODULE

Designates to which phone an add-on module (AOM) is assigned. There is no limit to the number of AOMs that can be assigned in the system. A maximum of four AOMs can be assigned to a keyset.

## CONDITIONS

An AOM cannot be designated as Master. If no AOM exists in the system, the 'AOM NOT EXIST' message is displayed.

## DEFAULT DATA

MASTER:NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 209.<br>Display shows first AOM: | [301] AOM MASTER<br>MASTER:NONE |
| 2. Dial AOM number.<br>OR<br>Use Volume button to scroll through AOM numbers and use Soft buttons to move cursor. | [301] AOM MASTER<br>MASTER:NONE |
| 3. Enter station number (e.g., 301)<br>OR<br>Use Volume button for selection of stations and press Right Soft button to return to step 2. | [301] AOM MASTER<br>MASTER:201 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [210] CUSTOMER ON/OFF PER TENANT

Allows the system administrator to set system features on a per-tenant basis. Each system option has a corresponding dialling number, as listed below. All options toggle ON/OFF.

| No | Option | Default | Description |
|---|---|---|---|
| 00 | DISA PSWD | ON | When ON, a caller must enter extension number and DISA password when they call a DISA trunk. When OFF, extension number and DISA password are not required and the caller has full access to all features allowed on this trunk. |
| 01 | LCR ENABLE | OFF | This option determines whether the system will or will not route outgoing calls based on the information in the LCR routing tables |
| 03 | PERI UCD RPT | OFF | Periodic UCD Information provider. Enables UCD Statistics data on a per-UCD group basis to print out on the IO port which has been set as PERI UCD in real time (every 3~99 seconds). This allows the information to be interfaced and manipulated by an external package or third party provided software. |
| 04 | CID CODE INS | OFF | When ON, the system will insert the country code when receiving CID information. This feature can use the CID display callback feature. |
| 05 | DISA MOH | OFF | When ON, outside parties will hear trunk MOH instead of dial tone from the time the system answers a DISA trunk until the caller dials a digit. |
| 06 | TRANSFER MOH | OFF | When ON, outside parties will hear trunk MOH instead of ringback tone from the time a transfer is completed until the call is answered by an internal party. |
| 08 | DID BSY ROUT | OFF | When ON, a DID call directed to a busy station will re-route to the destination in MMC 406 for that trunk, if CW is set to OFF in MMC 714. If the CW option is set to ON the call will camp on. When OFF and the CW option is set to OFF, the call will re-route to the operator. |
| 09 | ALARM MOH | ON | When ON, a station user answering an alarm ring will hear station MOH instead of dial tone. |
| 12 | CONF TONE | OFF | When ON, provides conference tone. (Available in Australia and Italy only.) |
| 13 | RECALL PIKUP | ON | When ON, a call recalling to a station can be picked up using Direct Call Pickup, Pickup Group and My Group features. This applies to held calls recalling and transferred calls recalling to a station. |

| No | Option | Default | Description |
|---|---|---|---|
| 14 | ICM EXT FWD | OFF | When ON, call forward external is allowed when intercom calls are placed to a station that has Call Forward External programmed and set. |
| 16 | DID ERR TONE | OFF | This option provides error tone when an invalid DID number is received. |
| 18 | KTS DISC ALM | OFF | When ON, generates a system alarm when a phone disconnects or connects. |
| 19 | OFF HOOK ALM | OFF | When ON, generates a system alarm when a phone stays off-hook longer than this timer. |
| 20 | SL SELF RING | OFF | When ON, generates ring of 10 seconds when a single line phone dials itself and hangs up (self test). |
| 21 | SGR INC BUSY | OFF | When ON, generates busy tone when all station group members are busy for a group call. This does not work for station groups which have Unconditional Ring mode set. |
| 24 | TRANSFER CANCEL | OFF | When OFF, a single line phone can handle 2 calls simultaneously using the hook-flash to toggle between them. When ON, a single line phone can connect to the second call, but pressing the hook-flash will not toggle between the two calls it will disconnect the second call and reconnect the single line phone to the first call. |
| 26 | RECALL DISC | OFF | When ON, the system disconnects a transferred call when it recalls. |
| 29 | ARD TONE CHK | ON | When system detects CO BUSY TONE from Central Office, it returns to auto redial state. |
| 30 | VPN ENABLE | OFF | When ON, VPN is enabled. (Australia only.) |
| 31 | IN TOLL CHK | OFF | When OFF, the system doesn't toll restrict incoming calls. |
| 32 | ISDN PROGCON | OFF | When ON, if an outgoing call receives PROGRESS message from ISDN trunk, the call will connect without CONNECT message. |
| 33 | INCLUDE VAT | OFF | When ON, an "Inclusive VAT of" line is printed on Hotel invoices (Hotel Application). |
| 36 | DSS KEY DPU | OFF | When ON, pressing a DS key will pick up the call at a ringing station |
| 37 | BEGN DGT DSP | OFF | When ON, and an outside call is made via speed dial or LNR where more than 11 digits are dialled, then only the first 11 dialled digits are shown on the phone display. |
| 38 | ONE TCH FACC | OFF | When OFF, phone users cannot use one-touch account code (ACC) key. |

| No | Option | Default | Description |
|---|---|---|---|
| 39 | SGR ALL OUT | OFF | When ON, the last remaining station group member can leave a group. |
| 40 | CHAIN FWD | ON | If ON, an incoming call forwarded from a station to another station may then be forwarded to the mailbox of the second station, if the latter is set for 'forward to voice mail'. If this option is OFF, the call may only be forwarded to the mailbox of the first station. |
| 41 | TRK MONITER | OFF | If ON, the system will monitor the trunk supervision signalling. That is, if a disconnection signal is received from the exchange, the call will be cleared and the extension will go back on hook. |
| 42 | VOIP MFRALOC | OFF | If ON, this allocates a DTMF receiver for a VOIP tandem caller breaking out on another trunk group. |
| 43 | NTWK AUTOTMR | OFF | If OFF, the call timer in the phone display will not function if the call is from a network connection (Q-SIG). |
| 44 | USE EURO | OFF | If ON, the unit of currency shown in call displays and on SMDR reports will be Euros (€). (This will also display on Hotel Application invoices.) |
| 45 | NO STAFF COD | OFF | When ON, the steps verifying the staff code will be omitted in Hotel operation. |
| 46 | PERI UCD SIO | OFF | When ON, the PERI UCD data will be sent to the SMDR IO port. |
| 47 | AUTO CLEANED | OFF | Normally, when a room is checked-out, the room status is changed to NEED CLEAN. When the option is set to ON, the room status will be changed to AVAILABLE instead. (Hotel Application.) |
| 48 | REDIAL REVW | OFF | When ON, the CALL LOG review will appear when the Redial or LNR button is pressed. |
| 50 | ISDN KEYFAC | OFF | If ON, allows Keypad Facility messages to be sent to the exchange to invoke network features. |
| 52 | CHK SPV TRK | OFF | When ON, if trunks don't have the supervision feature they cannot make outgoing transfers or unsupervised conferences. |
| 53 | PRE FWD BUSY | OFF | When ON, and a call arrives at a busy station that is not set for forward busy, if a preset no answer destination is available the call is re-routed to that destination. |
| 54 | ORG DIAL LOG | OFF | When ON, all dialled digits will be saved in the outgoing call log for Large LCD phones. When OFF, invalid dialling such as dialling of a non-existent station number will not be saved in the outgoing call log for Large LCD phones. |

| No | Option | Default | Description |
|---|---|---|---|
| 55 | TIE TRSF RCL | ON | When ON and a trunk call transferred to the tie line is not answered within the transfer recall time, the call recalls to the original transferring station. |
| 56 | VOIP REALRBT | OFF | When ON, the system will connect the real path of the outgoing trunk to the incoming VoIP trunk user instead of providing virtual ringback tone. |
| 57 | CO-CO TM ALL | OFF | When ON, this timer prevents system trunk calls from locking up. |
| 60 | SMDR AUT2ACC | OFF | When ON, the AUTHORIZATION CODE will be printed in ACCOUNT field of SMDR. |
| 64 | IPNW REAL RB | OFF | When ON, the system will connect the real path of the outgoing trunk to the VoIP networking trunk user instead of providing virtual ringback tone. |
| 66 | TRK AUTO MOH | OFF | When ON, an incoming trunk call is connected to MOH automatically after the DISA ANSWR timer (MMC 503) expires and the caller hears MOH. If the TRK AUTOMOH DISC timer in MMC501 expires before the call is answered, it is disconnected. (To use this feature, MMC 400 AUTO ANSWER option must set to ON.) |
| 67 | TRSF VT KEY | ON | When ON, works like the VT key when the user transfers the call to Voice Mail using the TRSF key. |
| 68 | PAIR NO RING | OFF | When ON, if a paired phone is busy the call camps on and a message waiting indication is set at the busy phone and does not ring the free paired extension. |
| 69 | DISA NO ACT | OFF | When ON, a DISA call will go to the station assigned in MMC 406 after the DISA NO ACT timer expires. |
| 70 | ICM AUTOHOLD | OFF | When ON, will allow internal calls to be put on hold automatically when another call is taken. |

## DEFAULT DATA

SEE DESCRIPTION
SOME OPTIONS DEPEND ON COUNTRY

## ACTION

1. Press Transfer button and enter 210.
   Display shows:

   DISPLAY:
   ```
   TEN. ON AND OFF
   DISA PSWD   :OFF
   ```

2. Dial option number (e.g., 00)
   Press Right Soft button to move cursor.

   DISPLAY:
   ```
   TEN. ON AND OFF
   DISA PSWD   :OFF
   ```

3. Dial 1 for ON or 0 for OFF.
   OR
   Press Volume button to make selection and press Right Soft button.

```
TEN. ON AND OFF
DISA PSWD   :ON
```

4. Repeat steps 2-3 for other options.
   OR
   Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [211] DOOR RING ASSIGNMENT

Designates which station or group of stations will ring when a door phone button is pressed. If the ring plan destinations are not entered the default ring plan 1 is used. Available ring plans are 1 to 6.

## DEFAULT DATA

STATION GROUP: 500

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 211.<br>Display shows first door phone: | [229] DOOR RING<br>1:500  2:500 |
| 2. Dial door phone number (e.g., 230)<br>OR<br>Press Volume button to scroll through door phone numbers and use the Right Soft button to move cursor. | [230] DOOR RING<br>1:500  2:500 |
| OR<br>Select All door ring. | [ALL] DOOR RING<br>1:500  2:500 |
| 3. Enter new ring plan number selection via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button. | [250] DOOR RING<br>1:301  2:500 |
| 4. Press Right Soft button to return to step 2.<br>OR<br>Press Left Soft button to return to step 3.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 601 ASSIGN STATION GROUP

# [214] DISA ALARM RINGING STATION

Assigns the DISA alarm to ring at a specific phone. It is recommended that the person who can clear the alarm also receives the notification.

## CONDITIONS

- A valid destination can be either a station group or an individual station.
- The alarm ringing station or group will follow the ring plan time destination.

## DEFAULT DATA

ALL RING PLANS: 500

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 214.<br>Display shows: | DISA ALARM RING<br>1:500 2:500 |
| 2. Enter valid destination number for ring plan. (e.g., 217)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | DISA ALARM RING<br>1:217 2:500 |
| 3. Enter valid destination number for another ring plan (e.g., 249)<br>OR<br>Press Volume button to make selection. | DISA ALARM RING<br>1:217 2:249 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 202 | CHANGE FEATURE PASSCODE |
| MMC 601 | ASSIGN STATION GROUP |

# [217] TRAFFIC REPORT OPTION

This MMC is used to print a traffic report and select options. The traffic report can be printed on demand, or every hour, or at a programmed time each day, or for up to three separately-timed shifts. Automatic printing will always clear the totals.

When report **MANUAL PRINT OUT** is selected, the options are:

| No | Option | Description |
|---|---|---|
| 0 | PRINT AND CLEAR | A report is printed and all totals are reset to 0. |
| 1 | PRINTOUT ONLY | A report is printed and all the totals are saved. |
| 2 | CANCEL PRINTOUT | Cancels printout. |

When **AUTO PRINT OPTN** is selected, the options are:

| No | Option | Description |
|---|---|---|
| 0 | AUTO PRINT OFF | Automatic print feature is disabled. |
| 1 | DAILY | A report is printed at a programmable time every day and all the totals are reset to ‘0’ |
| 2 | EVERY HOUR | A report will be printed every hour |
| 3 | THREE TIME SHIFT | Up to three separate Start and End times may be programmed to report traffic within different shifts. A report is printed at the end of each End time and all totals are reset to ‘0’ |

When a report is printed, the totals represent call statistics accumulated from the date of the last report stated as BEGINNING: D & T up to the date of this printout stated as ENDING D & T.

If there are no trunks in a group, the trunk group report for that group will not print.

## CONDITIONS

If this function is required in an OfficeServ 7000 series system with an MCP card, you must connect the LAN cable to the MCP card and be connected to a terminal supporting the TCP/IP function.

## DEFAULT DATA

AUTO PRINT OFF

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 217.<br>Display shows: | TRAFFIC REPORT<br>MANUAL PRINTOUT |
| 2. Dial 0 for manual or 1 for automatic print.<br>OR<br>Press Volume button to select and press Right Soft button. | TRAFFIC REPORT<br>AUTO PRINT OPTN |
| 3. If AUTO selected, dial 0, 1, 2 or 3 for automatic print option.<br>OR<br>Press Volume button to select option and press Right Soft button. | TRAFFIC REPORT<br>DAILY HHMM:2359_ |
| 4. Enter daily report time (HHMM) | TRAFFIC REPORT<br>DAILY HHMM:2200 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 829 LAN PRINTER PARAMETERS

# [220] ISDN SERVICE TYPE

Assigns the ISDN service type of a single line telephone port. Service consists of BC (Bearer Capability) and HLC (High Layer Capability).

| No | Type | Description | BC | HLC |
|---|---|---|---|---|
| 0 | VOICE | Voice service | Speech | - |
| 1 | FAX 3 | G3 FAX service | 3.1 kHz Audio | FAX G2/G3 |
| 2 | AUDIO 3.1 | 3.1 kHz Audio service | 3.1 kHz Audio | None |
| 3 | MODEM | MODEM service | 3.1 kHz Audio | Telephony |

## DEFAULT DATA

VOICE

## ACTION

1. Press Transfer button and enter 220.
   Display shows:

   DISPLAY: `[209] ISDN SVC`
   `VOICE`

2. Enter the station number (e.g., 210)
   OR
   Press Volume button to select station and press Right Soft button.

   DISPLAY: `[210] ISDN SVC`
   `VOICE`

3. Select service type (0-3)
   OR
   Press Volume button to select option and press Right Soft button.

   DISPLAY: `[210] ISDN SVC`
   `AUDIO 3.1`

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [221] EXTENSION TYPE

This MMC assigns station ports for a specific use. Each phone can be designated as one of five types (see table). These types can be changed by dialling the type number or by scrolling through the types and pressing the Right Soft button to select the type.

| No | Type | Description |
|---|---|---|
| 0 | NORMAL STATION | This is the default setting. The station will operate in the normal manner associated with this type of station. Ports designated as VMAA in MMC 207 must be designated as normal in this MMC. |
| 1 | GUEST SMOKING | When a station is designated as this type it will appear in room status and check-in features as a smoking room. |
| 2 | GUEST NO SMOKING | When a station is designated as this type it will appear in room status and check-in features as a non-smoking room. |
| 3 | MEETING ROOM | Stations designated as Meeting Rooms will have the same attributes as guest rooms with regard to cleaning and occupied status but will not show up while scrolling through room status lists. |
| 4 | ADMINISTRATOR | Only stations designated as administrator stations can use Hotel features (check in, etc.) |
| 5 | FAX STATION | When a station is designated as this type it can be assigned as a 'pair' station to a GUEST SMOKING ROOM or GUEST NO SMOKING ROOM in MMC 222. |

## CONDITIONS

This MMC can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.

## DEFAULT DATA

NORMAL STATION

## ACTION

1. Press Transfer button and enter 221.
   Display shows:

   DISPLAY:
   ```
   [201] PHONE USE
   NORMAL STATION
   ```

2. Dial station number (e.g., 214)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [214] PHONE USE
   NORMAL STATION
   ```

3. Dial 0 - 5 to select station type.
   OR
   Press Volume button to select option and press Right Soft button.

```
[214] PHONE USE
GUEST NO SMOKING
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 813 HOTEL OPERATION

# [222] FAX PAIR

Enables a guest room to have a normal phone line and fax line simultaneously. Only a Guest No Smoking Room or Guest Smoking Room can be assigned a fax pair station which is already assigned as a fax station in MMC 221.

## DEFAULT DATA

NONE

## CONDITIONS

This MMC can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.
This MMC can be used only when there is station that set GUEST SMOKING, GUEST NO SMOKING in MMC 222, and if not, display “ROOM NOT EXIST”:

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 222.<br>Display shows: | `[201] FAX PAIR`<br>`NONE` |
| 2. Dial guest extension number (e.g. 205)<br>OR<br>Press Volume button to select and press Right Soft button. | `[205] FAX PAIR`<br>`NONE` |
| 3. Dial fax station number (e.g. 301)<br>OR<br>Press Volume button to select and press Right Soft button. | `[205] FAX PAIR`<br>`301` |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 221 | EXTENSION TYPE |
| MMC 813 | HOTEL OPERATION |

# [224] AUDIO PROMPT

This feature requires an SVMi-20E module to be installed in the system. The system will play a selected recorded prompt (1–9999) when a call is answered. Prompts 1005–9999 can be customised in programming; 1–1004 are default system prompts and should not be changed.

This MMC has the following options.

| No | Option | Description |
|---|---|---|
| 0 | STN GROUP | Determines which VMS UCD group or SVMi-20E port will be connected when a call is answered. |
| 1 | PROMPT NO | Determines which prompt will be played when a call is answered. This destination is a recorded message 1-9999. |
| 2 | GROUP BUSY | Determines which tone source will be connected when all VMS UCD group members are busy. This destination can be NONE, TONE or external music on hold.<br>If NONE is set then dial tone is connected; if TONE is set then hold tone is connected. |
| 3 | RBT SOURCE | Determines which VMS UCD group or port is used as the Ring Back Tone (RBT) source. |

## CONDITIONS

NONE

## DEFAULT DATA

STN GROUP: NONE
PROMPT NO: 0001
GROUP BUSY: NONE
RBT SOURCE: NONE

## ACTION

1. Press Transfer button and enter 224.
   Display shows:

```
AUDIO PROMPT
STN GROUP  :NONE
```

2. Dial 0, 1 or 2 for option select (e.g. 0).
   OR
   Press Volume button to select option and press Right Soft button.

```
AUDIO PROMPT
STN GROUP  :NONE
```

3. Enter the station group number.
   OR
   Press Volume button to select and press Right Soft button to return to step 2.

```
AUDIO PROMPT
STN GROUP  :578
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [300] CUSTOMER ON/OFF PER STATION

Allows the following features to be enabled/disabled on a per-station basis.

| No | Option | Default | Description |
|---|---|---|---|
| 00 | ACCESS DIAL | ON | Determines whether a user can select a trunk or trunk group by dialling its directory number (DN). This selection should be turned off when using LCR. |
| 01 | MICROPHONE | ON | Allows phones to be used in speakerphone mode. |
| 02 | OFF-HOOK RING | ON | Will allow a short burst of ring tone to indicate another call. |
| 03 | SMDR PRINT | ON | When the station is set for no Trunk Line calls to and from this station, the station will not print on SMDR. This includes transferred calls or calls picked up from hold or park. |
| 04 | TGR ADV.TONE | ON | When this feature is set to ON, a warning tone will be heard each time LCR advances to the next route. |
| 05 | VMAA FORWARD | ON | This feature selects whether Trunk Line calls can be forwarded to voice mail: ON, permits forward to voice mail; OFF, no forward to voice mail. |
| 07 | NGT PASSCODE | ON | When ON, the steps verifying the ring plan passcode will be added in Ring Plan change. |
| 08 | INTRCOM SMDR | OFF | When set to OFF, the station will not print intercom calls on SMDR. |
| 09 | FWD DELAY USE | OFF | When ON, calls will overflow to the Forward No Answer destination when the Forward No Answer timer expires even when the Forward No Answer feature is not activated at the called party extension. |
| 11 | FORWARD OVRD | OFF | When set to ON and the station calls another station which has forwarding set, the call will not forward. |
| 12 | RECL TO OPER | OFF | When set to ON, if the station transfers a call and the destination doesn't answer, the call will recall to the operator instead of the station. |
| 13 | SLT LP OPEN | OFF | When ON, SLI port receives real disconnect signal instead of busy or error tone. (VMAA or DATA ports always receive real disconnect signal.) |
| 15 | CID TO SLT | OFF | When a MIS module is installed and this option is set to ON, the system will provide the CID signal to SLTs. |
| 22 | NO RCL FLASH | OFF | When the hook switch is flashed or the flash key is pressed, a recall signal will not be sent to the system. |

## DEFAULT DATA

SEE DESCRIPTION
SOME OPTIONS DEPEND ON COUNTRY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 300.<br>Display shows: | [201] CUS.ON/OFF<br>ACCESS DIAL :ON |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station.<br>OR<br>Select all stations and press Right Soft button to move cursor. | [205] CUS.ON/OFF<br>ACCESS DIAL :ON<br><br><br>[ALL] CUS.ON/OFF<br>ACCESS DIAL :ON |
| 3. Press Volume button to select feature and press Right Soft button to move cursor. | [ALL] CUS.ON/OFF<br>ACCESS DIAL :ON |
| 4. Dial 1 for ON or 0 for OFF.<br>OR<br>Press Volume button to select and press Right Soft button. | [ALL] CUS.ON/OFF<br>ACCESS DIAL :OFF |
| 5. Press Left Soft button to return to step 2.<br>Press Right Soft button to return to step 1.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

### LCR PROGRAMMING:

| | |
|---|---|
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 712 | LCR ROUTE TABLE |

# [301] ASSIGN STATION COS

Used to assign a class of service to each phone. There are 30 different classes of service (defined in MMC 701, Assign COS Contents) and six ring plans based on the Ring Plan Time in MMC 507 that can apply to the COS. Classes of service are numbered 01-30. The default is COS 01.

## DEFAULT DATA

RING PLANS 1-6: 01

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 301.<br>Display shows first station: | [201] STN COS<br>1:01 2:01 3:01 |
| 2. Dial station number (e.g., 205)<br>OR<br>Use Volume button to scroll through stations.<br>Press Right Soft button to advance step 3.<br>OR<br>Use Volume button to scroll through stations and press Left Soft button to advance to step 4. | [205] STN COS<br>1:01 2:01 3:01 |
| OR<br>Select all stations. | [ALL] STN COS<br>1:01 2:01 3:01 |
| 3. Enter new ring plan selection via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [205] STN COS<br>1:01 2:01 3:01 |
| 4. Enter ring plan class of service (e.g., 05)<br>OR<br>Use Volume button to scroll through classes of service and press Right Soft button to advance to the next ring plan.<br>OR<br>Use Volume button to scroll through classes of service and press Left Soft button to return to step 2. | [205] STN COS<br>1:05 2:01 3:01 |

5. Enter the next ring plan class of service (e.g., 05)
   OR
   Use Volume button to scroll through classes of service and press Right Soft button to move cursor to the next ring plan.
   OR
   Use Volume button to scroll through classes of service and press Left Soft button to return to previous step.

```
[205] STN COS
1:05  2:01  3:01
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 701 ASSIGN COS CONTENTS

# [302] PICKUP GROUPS

Allows the assignment of stations into call pickup groups. There is a maximum of 99 pickup groups. An unlimited number of members can belong to each group. Stations can only be in one pickup group at any given time.

## DEFAULT DATA

NO PICKUP GROUPS ASSIGNED

## ACTION

1. Press Transfer button and enter 302.
   Display shows:

   DISPLAY:
   ```
   [201] PICKUP GRP
   PICKUP GRP:NONE
   ```

2. Dial station number (e.g., 205)
   OR
   Use Volume button to select station number and press Right Soft button.
   OR
   Select all stations.

   DISPLAY:
   ```
   [205] PICKUP GRP
   PICKUP GRP:NONE
   ```
   ```
   [ALL] PICKUP GRP
   PICKUP GRP:??
   ```

3. Dial pickup group number (e.g., 05)
   OR
   Press Volume button to select group number.

   DISPLAY:
   ```
   [205] PICKUP GRP
   PICKUP GRP:05
   ```

4. Press Right Soft button to return to step 2 to enter more stations.
   OR
   Press Left Soft button to return to step 3.
   OR
   Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [303] ASSIGN BOSS/SECRETARY

Assigns BOSS phones to SECRETARY phones. One BOSS station can have up to and including four SECRETARY stations and one SECRETARY station can have up to and including four BOSS stations.

## CONDITIONS

- A dedicated BOSS button must be programmed on the SECRETARY phone(s).
- A dedicated BOSS button must also be programmed on the BOSS phone.
- A station designated as BOSS may not be assigned as a secretary of another BOSS.

## DEFAULT DATA

NONE

## PROGRAM BUTTONS

F BUTTON Used to toggle BOSS/SECRETARY field

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 303.<br>Display shows: | BOSS STN:NONE<br>SECR 1:NONE |
| 2. Dial BOSS station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button. | BOSS STN:205<br>SECR 1:NONE |
| 3. Dial SECRETARY number (1, 2, 3 or 4)<br>OR<br>Press Volume button to select number and press Right Soft button. | BOSS STN:205<br>SECR 1:NONE |
| 4. Dial SECRETARY station number (e.g., 201)<br>OR<br>Press Volume button to select station.<br>Press Right Soft button to return to step 3 to enter more SECR numbers. | BOSS STN:205<br>SECR 1:201<br><br>BOSS STN:205<br>SECR 2:202 |
| 5. Press Left Soft button to return to step 2 and continue entries.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 722 STATION KEY PROGRAMMING

# [304] ASSIGN EXTENSION/TRUNK USE

Allows you to select which stations are allowed to make calls through C.O. lines or to answer calls for C.O. lines (on a station and trunk use group basis).

## CONDITIONS

- Stations are set within use group numbers 001~300 and trunks are set within use group numbers 301~500 in MMC 614, ASSIGN USE GROUP.
- If a station group is set to NO Dial, stations cannot place calls on that trunk group.
- If a station group is set to NO Answer, stations cannot answer incoming calls on that trunk group.

Note: MMC 406, Trunk Ring Assignment, overrides this MMC for the Answer option.

## DEFAULT DATA

DIAL: YES
ANS: YES

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 304.<br>Display shows: | (001) USE (301)<br>DIAL:YES ANS:YES |
| 2. Dial the station use group number (e.g., 005)<br>OR<br>Press Volume button to select station use group and press Right Soft button.<br>OR<br>Select all station use groups. | (005) USE (301)<br>DIAL:YES ANS:YES<br><br>(ALL) USE (301)<br>DIAL:YES ANS:YES |
| 3. Dial the station use group number.(e.g., 304)<br>OR<br>Press Volume button to select trunk use group and press Right Soft button.<br>OR<br>Select all trunk use groups. | (005) USE (304)<br>DIAL:YES ANS:YES<br><br>(005) USE (ALL)<br>DIAL:YES ANS:YES |
| 4. Press Volume button to select YES/NO option.<br>OR<br>Dial 1 for YES or 0 for NO and press Right Soft button to move cursor to ANS option. | (005) USE (304)<br>DIAL:NO ANS:YES |

5. Press Volume button to select YES/NO Option.
   OR
   Dial 1 for YES or 0 for NO and press Right Soft button to return to step 2.

```
(005) USE (304)
DIAL:NO  ANS:YES
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 316 | COPY STATION USABLE |
| MMC 614 | STATION/TRUNK USE GROUP |

# [305] ASSIGN FORCED CODE

This MMC allows one of the four options to be selected: the assignment of account codes with verification, account codes without verification and authorization codes (or none of these) on a per-station basis or on an all-station basis. The system supports 500 authorization codes and 999 account codes which may or may not require verification.

| No | Type | Description |
|---|---|---|
| 0 | NONE | No Account or Authorization code required (strictly voluntary). |
| 1 | AUTHORIZE CODE | Forces user to enter a valid Authorization code of four or more digits listed in the AUTHORIZATION CODE Table (MMC 707). |
| 2 | ACCT VERIFIED | Forces user to enter a valid Account code listed in the ACCOUNT CODE Table (MMC 708). |
| 3 | ACCT NO VERIFIED | Forces user to enter an Account code which is not verified. User can enter any code up to 12 digits (including ∗ and #). |

## DEFAULT DATA

NONE

## ACTION / DISPLAY

1. Press Transfer button and enter 305.
   Display shows:

```
[201] FORCD CODE
NONE
```

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

```
[205] FORCD CODE
NONE
```

3. Dial a feature option 0-3 (e.g., 2)
   OR
   Press Volume button to select option and press Right Soft button to return step 2.

```
[205] FORCD CODE
ACCT VERIFIED
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 707 | AUTHORIZATION CODE |
| MMC 708 | ACCOUNT CODE |

# [306] HOT LINE/OFF HOOK SELECTION

Allows a station to make a predetermined call, similar to a ring-down circuit, upon the expiration of a timer (see MMC 502, STATION TIMERS, Off-Hook Selection Timer).

## CONDITIONS

- The hotline destination can be a station, a station group, a trunk, a trunk group or an external number.
- There is a maximum of 18 digits in the dial string for external numbers. The access code for trunk or trunk group access (e.g. 0 or 9) is not counted as part of the 18.

## DEFAULT DATA

NONE

## PROGRAM BUTTONS

| | |
|---|---|
| B | Used to insert a flash code 'F' |
| C | Used to insert a pause code 'P' |
| D | Used to insert a pulse/tone conversion code 'C' |
| E | Used to mask/unmask following digits-shows as '[' or ']' |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 306.<br>Display shows: | [201] HOT LINE<br>NONE |
| 2. Dial station number.<br>OR<br>Use Volume button to scroll through stations.<br>Press Right Soft button to move the cursor. | [205] HOT LINE<br>NONE |
| 3. Enter the hot line destination, a station or trunk ID (e.g., 9 or 701) with a maximum of 18 outgoing digits after the access code for the CO call (see above list of options if needed) | [205] HOT LINE<br>9-1305P4264100_ |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 502 | STATION-WIDE TIMERS (OFF-HOOK SELECTION TIMER) |

# [308] ASSIGN BACKGROUND MUSIC SOURCE

Assigns a background music source to phones. There is one internal music source and two additional external music sources are provided if a MIS module is installed in the system. A 3-chassis system has six external music sources. The default directory numbers for the music sources are 371 (internal) , 372~ 377 (external).

## CONDITIONS

To use an external sound source, connect the corresponding port of the MOH source to the external sound source of the module. If 'NONE' is set for background music or if a sound source is not connected to the external sound source port designated as the background music source, music will not be played even if the background music function is enabled.

## DEFAULT DATA

NONE

## ACTION / DISPLAY

1. Press Transfer button and enter 308.
   Display shows current setting.

   ```
   [201] BGM SOURCE
   BGM SOURCE:NONE
   ```

2. Dial phone number (e.g., 205)
   OR
   Use Volume button to scroll through phone numbers and press Right Soft button to move the cursor.

   ```
   [205] BGM SOURCE
   BGM SOURCE:NONE
   ```

   OR
   Select all stations.

   ```
   [ALL] BGM SOURCE
   BGM SOURCE:?
   ```

3. Enter source number (e.g., 3761)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

   ```
   [205] BGM SOURCE
   BGM SOURCE:3761
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 309 | ASSIGN STATION MOH SOURCE |
| MMC 408 | ASSIGN TRUNK MOH SOURCE |

# [309] ASSIGN STATION MOH SOURCE

Assigns a Music On Hold source to phones. There is one internal music source and two additional external music sources are provided if a MIS module is installed in the system.

The default directory numbers for the music sources are 3761 (internal) and 3762-3763 (external).

## CONDITIONS

To use an external sound source, connect the corresponding port of the MOH source to the external sound source of the MIS module.

## DEFAULT DATA

TONE

## ACTION / DISPLAY

1. Press Transfer button and enter 309.
   Display shows current setting:

```
[201] STN MOH
MOH SOURCE:NONE
```

2. Dial phone number (e.g., 205)
   OR
   Use Volume button to scroll through phone numbers and press Right Soft button to move the cursor.

```
[205] STN MOH
MOH SOURCE:NONE
```

   OR
   Select all stations.

```
[ALL] STN MOH
MOH SOURCE:?
```

3. Enter source number (e.g., 3761)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

```
[205] STN MOH
MOH SOURCE:3761
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 308 | ASSIGN BACKGROUND MUSIC SOURCE |
| MMC 408 | ASSIGN TRUNK MOH SOURCE |

# [310] LCR CLASS OF SERVICE

Assigns the LCR class of service allowed on a per-station/per-trunk basis. There are eight classes which may be assigned. LCR class of service allows specific users to 'trunk advance' up to a matching LCR class of service programmed in MMC 712.

## DEFAULT DATA

LEAST COST ROUTING COS: 1

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 310.<br>Display shows: | [201] LCR CLASS<br>LCR CLASS 1 |
| 2. Dial station/trunk number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor.<br>OR<br>Select all stations. | [205] LCR CLASS<br>LCR CLASS 1<br><br>[ALL] LCR CLASS<br>LCR CLASS ? |
| 3. Dial 1-8 to select class type (e.g., 3)<br>OR<br>Press Volume button to select class type and press Right Soft button to return to step 2. | [205] LCR CLASS<br>LCR CLASS 3 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

### LCR PROGRAMMING:

| | |
|---|---|
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 712 | LCR ROUTE TABLE |
| MMC 713 | LCR MODIFY DIGIT TABLE |

# [312] ALLOW CALLER ID

Allows the system administrator or technician to allow or deny CID data to be sent from, or displayed at, LCD phones.

| Option | Description |
|---|---|
| RCV | Set whether to display CID. |
| SND | Set whether to send CID for ISDN calls. |

## DEFAULT DATA

RCV: YES
SND: YES

## ACTION

1. Press Transfer button and enter 312.
   Display shows:

   DISPLAY: `[201] CID/ANI`
   `RCV:YES SND:YES`

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.
   OR
   Select all stations

   DISPLAY: `[205] CID/ANI`
   `RCV:YES SND:YES`

   DISPLAY: `[ALL] CID/ANI`
   `RCV:YES SND:YES`

3. Dial 0 or 1 to select Receive option.
   OR
   Press Volume button to select receive option and press Right Soft button to move cursor.

   DISPLAY: `[205] CID/ANI`
   `RCV:YES SND:YES`

4. Dial 0 or 1 to select Send option.
   OR
   Press Volume button to select send option and press Right Soft button to return to step 2.

   DISPLAY: `[205] CID/ANI`
   `RCV:YES SND:YES`

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 119 CALLER ID DISPLAY

# [314] CONFIRM OUTGOING CALL

Allows outgoing call restriction by call duration time: calls can be disconnected or the user can receive 'confirm tone' (refer to the CO Confirm timer in MMC 501).

| No | Type | Description |
|---|---|---|
| 0 | NONE | No action |
| 1 | CONFIRM TONE | Caller hears confirmation tone at programmed time |
| 2 | DISCONNECT | Call is disconnected. |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 314.
   Display shows:

   DISPLAY: `[201] CO CONFIRM NONE`

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and use Right Soft button to move cursor.
   OR
   Select all stations.

   DISPLAY: `[205] CO CONFIRM NONE`

   DISPLAY: `[ALL] CO CONFIRM NONE`

3. Dial a feature option 0-2.
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

   DISPLAY: `[205] CO CONFIRM CONFIRM TONE`

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 501 SYSTEM-WIDE TIMERS

# [315] CUSTOMER SET RELOCATION

Allows the system administrator or technician to exchange similar phones in the system without hardware changes. All the button settings, features, etc. for a phone can be copied to another. The user can then relocate to the new station and work as normal. Refer to the tables (below) listing which phones/AOMs can be exchanged.

## DEFAULT DATA

NONE

## ACTION / DISPLAY

1. Press Transfer button and enter 315.
   Display shows:

   ```
   SET RELOCATION
   EXT_    EXT
   ```

2. Enter number of original station (e.g., 202)
   Press Right Soft button to move cursor.

   ```
   SET RELOCATION
   EXT202  EXT_
   ```

3. Enter second station number (e.g., 210)
   Press Right Soft button to enter data.

   ```
   SET RELOCATE
   EXT202  EXT210
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

   ```
   SET RELOCATION
   EXT_    EXT
   ```

## RELATED ITEMS

NONE

**Exchange Allowed Table (1)**

| Add-On Modules | | |
|---|---|---|
| | 48B | 64B |
| 48B | YES | YES |
| 64B | YES | YES |

| Exchange Allowed Table (2) | SLT (Analogue) | 5000/5100 Series Digital Keysets (DS) | | | | | | | | 5000/5100 Series IP Keysets (ITP) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2100B | 5007S | 5014S | 5038S | 5014D | 5021D | 5012L | 5012LE | 5014D | 5021D | 5012L | 5107S | 5114D | 5121D | 5112L | Soft-Phone |
| SLT | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 2100B | NO | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5007S | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5014S | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5038S | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5014D | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5021D | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5012L | NO | NO | NO | NO | NO | NO | NO | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO |
| DS-5012LE | NO | NO | NO | NO | NO | NO | NO | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO |
| ITP-5014D | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | NO | YES [1] | YES [2] | YES [3] | NO | NO |
| ITP-5021D | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | NO | YES [1] | YES [2] | YES [3] | NO | NO |
| ITP-5012L | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | NO | YES | YES |
| ITP-5107S | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES [1] | YES [1] | NO | YES | NO | NO | NO | NO |
| ITP-5114D | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES [2] | YES [2] | NO | NO | YES | YES | NO | NO |
| ITP-5121D | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES [3] | YES [3] | NO | NO | YES | YES | NO | NO |
| ITP-5112L | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | NO | YES | YES |
| SoftPhone | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | NO | YES | YES |

1 – Set Relocation can only be performed from the ITP-5107S. 2 – Set Relocation can only be performed from the ITP-5114D. 3 – Set Relocation can only be performed from the ITP-5121D

# [316] COPY STATION USABLE

Provides a tool for copying station/trunk use assignments in MMC 304 from one station user group to another. This can be done on a station use group basis or for all station use groups.

Use groups are set up in MMC 614.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 316.<br>Display shows: | (001)COPY USABLE<br>FROM:NONE |
| 2. Enter station use group number (e.g., 005)<br>OR<br>Press Volume buttons to make selection and press Right Soft button to move cursor. | (005)COPY USABLE<br>FROM:NONE |
| 3. Enter station use group number to copy from.<br>Cursor returns to step 2.<br>OR<br>Press Volume button to make selection. | (005)COPY USABLE<br>FROM:003 |
| 4. Press Right Soft button to return to step 2.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 304 | ASSIGN EXTENSION/TRUNK USE |
| MMC 614 | STATION/TRUNK USE GROUP |

# [317] ASSIGN STATION/STATION USE

This MMC is used to determine whether stations in one use group can make intercom calls to stations in other use groups (within the same tenant).

Use groups are set up in MMC 614.

## DEFAULT DATA

DIAL: YES

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 317.<br>Display shows: | (001) USE (001)<br>DIAL:YES |
| 2. Dial the first station use group number (e.g., 005)<br>OR<br>Press Volume button to select station and press Right Soft button. | (005) USE (001)<br>DIAL:YES |
| OR<br>Select all station use groups. | (ALL) USE (001)<br>DIAL:YES |
| 3. Dial the second station use group number (e.g., 004)<br>OR<br>Press Volume button to select station and press Right Soft button. | (005) USE (004)<br>DIAL:YES |
| 4. Dial 1 for YES or 0 for NO (NO means first group cannot dial second group)<br>OR<br>Press Volume button to select YES/NO and press Right Soft button to move cursor. | (005) USE (004)<br>DIAL:NO |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 614 | STATION/TRUNK USE GROUP |

# [318] DISTINCTIVE RINGING

Allows the technician to select the ring tone heard at a keyset when called by a specific station or when a specific trunk rings that keyset. There is also a cadence control option to perform a similar function for SLTs.

There are eight ring tones available along with a Follow Station option (default) for keysets. There are five cadences and a Follow Station option (default) for SLTs. See table, below.

It also allows the technician to assign the call priority for a group call when called by a specific station or when a specific trunk rings that phone. When calls come into a station group and all group members are busy, the system will assign a priority to a specific station or a specific trunk so that high priority calls will be placed at the front of the group queue. If this option is set to NO, the call held longest in the group queue has the highest priority. There are nine priority levels: level 1 is the highest and level 9 is the lowest.

| Option | No | Description |
|---|---|---|
| TONE Option | Calls will ring with the keyset user's choice of ring frequency. | |
| | 1~8 | Calls from the programmed station or trunk will ring with this frequency. |
| CADENCE Option | Calls will ring with the normal SLT ring cadences. | |
| | 1 | Calls from the programmed station or trunk will ring with the intercom ring cadence. |
| | 2 | Calls from the programmed station or trunk will ring with the CO ring cadence. |
| | 3 | Calls from the programmed station or trunk will ring with the DOOR ring cadence. |
| | 4 | Calls from the programmed station or trunk will ring with the ALARM ring cadence. |
| | 5 | Calls from the programmed station or trunk will ring with the CALLBACK ring cadence. |

## CONDITIONS

- Digital phone (keyset) rings are distinguished by their tone. If the T (TONE) of the calling internal/external phone is set to 'NO', the bell rings according to the normal setting in MMC 111, PHONE RING TONE, for the receiving station. If T is set to 1-8, the bell rings according to the designated ring tone.
- SLT rings are distinguished by their ringing interval. If the C (CADENCE) of the calling internal/external phone is set to 'NO', the bell rings according to the interval set in MMC 510, SLI RING CADENCE, for each calling station type. If C is set to 1-5, the bell rings according to that interval regardless of the calling station type.

## DEFAULT DATA

T: NO (FOLLOW STATION SETTING)
C: NO (FOLLOW STATION SETTING)

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 318.<br>Display shows first station: | [201] RING TONE<br>T:NO C:NO PRI:NO |
| 2. Dial trunk or station number (e.g., 705)<br>OR<br>Press Volume button to select trunk or station and press Right Soft button to move cursor. | [705] RING TONE<br>T:NO C:NO PRI:NO |
| 3. Dial 1-8 to select ring tone.<br>OR<br>Press Volume button to select ring tone and press Right Soft button to move cursor. | [705] RING TONE<br>T:5 C:NO PRI:NO |
| 4. Dial 1-5 to select ring cadence.<br>OR<br>Press Volume button to select ring cadence and press Right Soft button to move cursor. | [705] RING TONE<br>T:5 C:3 PRI:NO |
| 5. Enter priority level via dial keypad.<br>(1-9 or NO) | [705] RING TONE<br>T:5 C:3 PRI:NO |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 111 | PHONE RING TONE |
| MMC 510 | SLI RING CADENCE |

# [319] BRANCH GROUP

Assign stations to branch groups. There is a maximum of four branch groups. When a C.O. line is ringing at a station, other stations assigned the same branch group can answer the incoming call by going off hook.


NOTE

This MMC is currently not valid in the UK/EU.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 319.<br>Display shows. | [201] BRANCH GRP<br>BRANCH GRP:NONE |
| 2. Dial station number (e.g., 205).<br>OR<br>Press Volume button to select station and use Right Soft button to move cursor. | [205] BRANCH GRP<br>BRANCH GRP:NONE |
| OR<br>Select all stations. | [ALL] BRANCH GRP<br>BRANCH GRP:?? |
| 3. Dial a branch group number (01-04).<br>OR<br>Press Volume button to make selection and press Right Soft button to return to step 2. | [205] BRANCH GRP<br>BRANCH GRP:04 |
| 4. Press Transfer button to save and exit<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [320] PRESET FORWARD NO ANSWER

Allows a technician to assign a default destination for Forward No Answer (FNA) to each station on the system. These destinations may be the same or different for each station. The preset FNA destination will be temporarily overwritten if the station user enters a different FNA destination. If you cancel the new destination, the preset destination will once more be in effect. Preset FNA time follows the station 'NO ANS FWD' timer (MMC 502).

Preset FNA can be assigned respectively for each type of call.

| No | Type | Description |
|---|---|---|
| 0 | INT | Preset FNA applies only to intercom calls. |
| 1 | EXT | Preset FNA applies only to incoming calls. |
| 2 | BOTH | Preset FNA applies to both intercom and incoming calls. |


NOTE

If PRE FWD BUSY option in MMC 210 is set ON, the forward busy follows this feature.

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 320.
   Display shows:

   DISPLAY:
   ```
   [201] PRESET FNA
   NONE    OPT:BOTH
   ```

2. Dial station number (e.g., 205)
   OR
   Press Volume button to select station and press Right Soft button to move cursor.
   OR
   Select all stations.

   DISPLAY:
   ```
   [205] PRESET FNA
   NONE    OPT:BOTH
   ```

   DISPLAY:
   ```
   [ALL] PRESET FNA
   NONE    OPT:BOTH
   ```

3. Dial valid number via keypad.
   OR
   Press Volume button to select call type and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [205] PRESET FNA
   202     OPT:BOTH
   ```

4. Dial call type 0, 1 or 2 (e.g. 1)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

```
[205] PRESET FNA
202    OPT:EXT
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 102 CALL FORWARD

# [323] CALLING PARTY NUMBER

Allows a number up to16 digits to be entered and associated with a station or trunk number on a per PRI/BRI basis. When this station makes an outgoing call on this PRI, the number entered here will be the Calling Party Number sent on the call. There are four tables for the system. If there are no entries in the tables the system uses the number for the trunk entered in MMC 405, TRUNK CO TEL NUMBER, for the Calling Party Number.

## DEFAULT DATA

EMPTY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 323.<br>Display shows: | [201] SEND CLIP<br>1: |
| 2. Dial extension or trunk number (e.g., 230)<br>OR<br>Press Volume button to select extension and press Right Soft button to move the cursor. | [230] SEND CLIP<br>1: |
| 3. Dial table number.<br>OR<br>Press Volume button to select table number and press Right Soft button to move the cursor. | [230] SEND CLIP<br>2: |
| 4. Enter the Calling Party Number. | [230] SEND CLIP<br>2:3055922900 |
| 5. Repeat steps 3 & 4 to enter other tables and Calling Party Numbers.<br>OR<br>Repeat steps 2, 3, & 4 to enter other station or trunk and Calling Party Numbers. | |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 419 | BRI OPTIONS |
| MMC 420 | PRI OPTIONS |
| MMC 834 | H.323 OPTIONS |

# [400] CUSTOMER ON/OFF PER TRUNK

Assigns several options (listed below) on a per-trunk basis.

| No | Option | Default | Description |
|---|---|---|---|
| 0 | 1A2 EMULATION | OFF | When this option is set to ON up to 4 internal stations can participate in a conversation on this trunk by pressing the trunk key. |
| 1 | TRUNK INC DND | OFF | When this option is set to ON a trunk that is programmed to ring a specific station(a private line or DIL) will ring at that station if the station is in DND. |
| 2 | TRUNK FORWARD | ON | When this option is set to OFF this trunk will not follow a ringing stations call forwarding. |
| 3 | LCR ALLOW | OFF | Allows LCR to be switched ON/OFF when a trunk is accessed using a DT key or by dialling its port number (e.g. 701). |
| 6 | EFWD EXT CLI | ON | This option determines what kinds of CLI number will be sent to the external forwarded outgoing call.(Station or Received CLI from Trunk) |
| 7 | REPEAT CLI | ON | This option determines what kinds of CLI number will be sent to the trunk to trunk call.(Trunk or Received CLI from Trunk) |
| 8 | TONECHK DISC | OFF | When this option is set to ON, loop trunk can be disconnected by detecting busy tone. (To use this feature, the LP TRK TONE DISC option in MMC 861 must be set to ENABLE.) |
| 9 | AUTO ANSWER | OFF | When this option is set to ON, Auto Answer mode can be assigned on a per-trunk basis. |

## DEFAULT DATA

1A2 EMULATE : OFF
TRK INC. DND : OFF
TRK FORWARD : ON
EFWD EXT CLI : ON
REPEAT CLI : ON

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 400.<br>Display show: | [701] TRK ON/OFF<br>1A2 EMULATE:OFF |
| 2. Dial trunk number (e.g., 704)<br>OR<br>Press Volume button to select trunk.<br>OR<br>Select all trunks and press Right Soft button to move cursor to options. | [704] TRK ON/OFF<br>1A2 EMULATE:OFF<br><br>[ALL] TRK ON/OFF<br>1A2 EMULATE:? |
| 3. Dial option number from above list<br>OR<br>Press Volume button to select option and press Right Soft button to move cursor. | [704] TRK ON/OFF<br>TRK FORWARD:ON |
| 4. Dial 1 for ON or 0 for OFF.<br>OR<br>Press Volume button to select ON/OFF and press Right Soft button to return to step 2. | [704] TRK ON/OFF<br>TRK FORWARD:OFF |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [401] TRUNK LINE/PBX LINE

Used to select the mode of the trunk lines: CO LINE or PBX LINE. If PBX mode is chosen, this allows PBX access codes to be recognised, thus allowing more complete toll restriction (call barring). This mode is assigned on a per-trunk basis.

## DEFAULT DATA

ALL TRUNKS: CO LINE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 401.<br>Display shows: | [701] PBX LINE<br>CO LINE |
| 2. Dial trunk number (e.g., 704)<br>OR<br>Use Volume button to scroll through trunk numbers and press Right Soft button to move. | [704] PBX LINE<br>CO LINE |
| OR<br>Select all trunks | [ALL] PBX LINE<br>? |
| 3. Dial 1 for PBX or 0 for CO (e.g. 1)<br>OR<br>Use Volume button to scroll through options<br>Press Right Soft button to return to step 2. | [704] PBX LINE<br>PBX LINE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [402] TRUNK DIAL TYPE

Used to determine the dialling type of each trunk line. There are two options:

| No | Type | Description |
|---|---|---|
| 0 | DTMF TYPE | Dual Tone Multi-Frequency |
| 1 | DIAL PULSE TYPE | Dial Pulse |

## DEFAULT DATA

ALL TRUNKS: DTMF

## ACTION

1. Press Transfer button and enter 402.
   Display shows:

   DISPLAY:
   ```
   [701] DIAL TYPE
   DTMF TYPE
   ```

2. Dial trunk number (e.g., 704)
   OR
   Use Volume button to scroll through trunk numbers and press Right Soft button to move the cursor.
   OR
   Select all.

   DISPLAY:
   ```
   [704] DIAL TYPE
   DTMF TYPE
   ```
   ```
   [ALL] DIAL TYPE
   ?
   ```

3. Dial 0 for DTMF or 1 for PULSE.
   OR
   Use Volume button to scroll through options
   Press Right Soft buttons to return to step 2.

   DISPLAY:
   ```
   [704] DIAL TYPE
   DIAL PULSE TYPE
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 501 | SYSTEM TIMERS |
| MMC 503 | TRUNK-WIDE TIMERS |

# [403] TRUNK TOLL CLASS

Assigns toll class level assignments on a per-trunk or all-trunk basis in a day or night condition. The options for toll level will follow either the station class or the class of service defined in MMCs 702, Toll Deny Table, and 703, Toll Allowance Table. The toll classes available are listed below with their entry numbers.

| No | Class | Description |
|---|---|---|
| 0 | F-STN | Follow station toll restriction |
| 1 | CLS-A | Follow toll class A (Unrestricted) |
| 2 | CLS-B | Follow toll class B |
| 3 | CLS-C | Follow toll class C |
| 4 | CLS-D | Follow toll class D |
| 5 | CLS-E | Follow toll class E |
| 6 | CLS-F | Follow toll class F |
| 7 | CLS-G | Follow toll class G |
| 8 | CLS-H | Follow toll class H (All restricted) |

## DEFAULT DATA

ALL TRUNKS: F-STN

## ACTION

1. Press Transfer button and enter 403.
   Display shows:

   DISPLAY:
   ```
   [701] TOLL CLASS
   1:F-STN 2:F-STN
   ```

2. Dial trunk number (e.g., 704)
   OR
   Use Volume button to scroll through trunk numbers and press Right Soft button to move the cursor.
   OR
   Select all.

   DISPLAY:
   ```
   [704] TOLL CLASS
   1:F-STN 2:F-STN
   ```
   ```
   [ALL] TOLL CLASS
   1:F-STN 2:F_STN
   ```

3. Dial ring plan number (1~6)
   OR
   Use Volume button to scroll through ring plan numbers and press Right Soft button to move the cursor.

   DISPLAY:
   ```
   [704] TOLL CLASS
   1:F-STN 2:F-STN
   ```

4. Enter day toll class (e.g., 2 for CLS-B)
   OR
   Press Volume button to scroll through toll classes and use Right Soft button to move the cursor.

```
[704] TOLL CLASS
1:CLS-B 2:F-STN
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 301 | ASSIGN STATION COS |
| MMC 507 | ASSIGN RING PLAN TIME |
| MMC 701 | ASSIGN COS CONTENTS |

# [404] TRUNK NAME

Allows a name up to 11 characters long to be entered to identify an individual trunk.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 404.<br>Display shows: | [701] TRUNK NAME |
| 2. Dial trunk (e.g., 704)<br>OR<br>Press Volume button to select trunk and press Right Soft button to move the cursor. | [704] TRUNK NAME |
| 3. Enter trunk name.<br>Press Right Soft button to return to step 2. | [704] TRUNK NAME<br>TELECOMS |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 104 | STATION NAME |
| MMC 405 | TRUNK CO TEL NUMBER |

# [405] TRUNK CO TEL NUMBER

Allows a number up to 11 digits long to be entered to identify an individual trunk.

## ENTERING NUMBERS

Numbers are written using the keypad. Each press of a key selects the digit and moves the cursor to the next position.

The # button can be used for special characters:
#, space, &, !, :, ?, ., %, $, -, <, >, /, =, [, ], @, ^, (, ), _, +, {, }, |, ; , \ , " , ~.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 405.<br>Display shows: | `[701] CO TEL NO.` |
| 2. Dial trunk (e.g., 704)<br>OR<br>Press Volume button to select trunk and press Right Soft button to move the cursor. | `[704] CO TEL NO.` |
| 3. Enter trunk number using the dial keypad | `[704] CO TEL NO.`<br>`3054264100` |
| 4. Press Right Soft button to return to step 2.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 404 TRUNK NAME

# [406] TRUNK RING ASSIGNMENT

Enables ringing to a specific station or to a group of stations when incoming calls are received. This MMC controls ring plan destinations for ring down trunks. If the ring plan destinations are not entered, the default ring plan is ring plan 1.

## DEFAULT DATA

ALL TRUNKS RING DEFAULT OPERATOR GROUP

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 406.<br>Display shows: | [701] TRK RING<br>1:500 2:500 |
| 2. Dial trunk number (e.g., 704)<br>OR<br>Use Volume button to scroll through trunk numbers and press Right Soft button to move the cursor. | [704] TRK RING<br>1:500 2:500 |
| OR<br>Select all. | [All] TRK RING<br>1:500 2:500 |
| 3. Dial ring plan number or press Right Soft button to move to the next step. | [704] TRK RING<br>1:500 2:500 |
| 4. Dial station number or station group number (e.g., 205)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor to the next ring plan destination and repeat step 4. | [704] TRK RING<br>1:205 2:500 |
| OR<br>Press Left Soft button to return to step 3. | [704] TRK RING<br>1:205 2:501 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 202 | CHANGE FEATURE PASSCODES |
| MMC 507 | ASSIGN RING PLAN TIME |
| MMC 601 | ASSIGN STATION GROUP |

# [407] FORCED TRUNK RELEASE

Provides a positive forced trunk release to a specific trunk or all trunks in the event of a trunk lock-up.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 407.<br>Display shows: | [701] TRK RELS.<br>RELEASE?_Y:1,N:0 |
| 2. Dial in trunk number (e.g., 704)<br>OR<br>Press Volume button selected trunk and press Right Soft button.<br>OR<br>Select all trunks. | [704] TRK RELS.<br>RELEASE?_Y:1,N:0<br><br>[ALL] TRK RELS.<br>RELEASE?_Y:1,N:0 |
| 3. Dial 1 for YES or 0 for NO.<br>(Pressing 1 or 0 will return to step 2) | [704] TRK RELS.<br>RELEASE?_Y:1,N:0 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [408] ASSIGN TRUNK MOH SOURCE

Allows the system administrator to select which Music-On-Hold (MOH) source can be heard on each trunk. There is one internal music source (371) and a maximum of six external music sources are available with a MIS module installed in a 3-chassis system (372 ~ 377).

Note: When enabled, the AA (Auto Answer) MOH option will allow an MOH source to play to callers who are automatically answered by the system before being connected to a station, voice mail or auto attendant. This AA MOH source can be the same as the source set for MOH.

## CONDITIONS

To use an external sound source, connect the corresponding port of the source to the external sound source of the MIS module.

## DEFAULT DATA

TONE

## ACTION

1. Press Transfer button and enter 408.
   Display shows current setting.

   ```
   [701] TRK MOH
   MOH:TONE  AA:TONE
   ```

2. Dial trunk number (e.g., 704)
   OR
   Use Volume button to scroll through trunk numbers and press Right Soft button to move cursor.

   ```
   [704] TRK MOH
   MOH:TONE  AA:TONE
   ```

   OR
   Select all.

   ```
   [ALL] TRK MOH
   MOH:?  AA:?
   ```

3. Enter MOH source number (e.g., 3761)
   OR
   Press Volume button to select option and press Right Soft button.

   ```
   [705] TRK MOH
   MOH:3761  AA:TONE
   ```

4. Enter AA source number
   OR
   Press Volume button to select option and press Right Soft button to return to step 2

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 756 ASSIGN VMMOH

# [409] TRUNK STATUS READ

This is a READ-ONLY MMC. Allows the status of trunks to be read in a format that will enable the servicing personnel to quickly identify the ownership and position of a trunk.

| No | Type | Description |
|---|---|---|
| 00 | PORT | Port Number (Chassis/Slot/Port) |
| 01 | TYPE | LOOP, GND, E & M, DID, BRI, PRI, VOIP |
| 02 | 1A2 EMULATE | 1A2 Emulation On/Off |
| 03 | TRK FORWARD | Trunk Forward On/Off |
| 04 | LINE | CO/PBX |
| 05 | DIAL | DTFM/Dial Pulse |
| 06-11 | TOLL TYPE 1-6 | Ring Plan Toll Restriction (1-6) |
| 12-17 | RING PLAN 1-6 | Ring Plan Ring Destination (1-6) |
| 18 | MOH SOURCE | MOH Source |
| 19 | DISA LINE | DISA Status |

## DEFAULT DATA

FOLLOWS TRUNK

## ACTION

1. Press Transfer button and enter 409.
   Display shows:

   DISPLAY:
   ```
   [701] TRK STATUS
   PORT:C1-S5-P01
   ```

2. Enter trunk number via dial keypad (e.g., 704)
   OR
   Press Volume button to make selection and press Right Soft button to advance cursor.

   DISPLAY:
   ```
   [704] TRK STATUS
   PORT:C1-S5-P04
   ```

3. Enter desired option 00-19 (e.g., 01)
   OR
   Press Volume button to make selection.

   DISPLAY:
   ```
   [704] TRK STATUS
   TYPE:LOOP TRUNK
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 400 | CUSTOMER ON/OFF PER TRUNK |
| MMC 401 | TRUNK LINE/PBX LINE |
| MMC 402 | TRUNK DIAL TYPE |
| MMC 403 | TRUNK TOLL CLASS |
| MMC 404 | TRUNK NAME |
| MMC 406 | TRUNK RING ASSIGNMENT |
| MMC 408 | ASSIGN TRUNK MUSIC ON HOLD SOURCE |
| MMC 410 | ASSIGN DISA TRUNK |

# [410] ASSIGN DISA TRUNK

Allows the system to have Direct Inward System Access (DISA). Because there is a possibility that unauthorized calls will be made via this feature, several safeguards have been added. Users must be informed of these to prevent unnecessary service calls. DISA can lock out when a predetermined number of invalid consecutive calls are attempted. Callers will then receive error tone until the programmable timer has expired.

## CONDITIONS

- The * key may be used to initiate new dial tone while in a station to station call.
- The # button may be used to terminate the DISA call and disconnect the central office line. DISA lines must be assigned to the ring plan(s).

## DEFAULT DATA

ALL TRUNKS: NORMAL

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 410.<br>Display shows: | [701] 123456<br>DISA LINE:000000 |
| 2. Dial trunk number (e.g., 704)<br>OR<br>Press Volume button to select trunk and press Right Soft button. | [704] 123456<br>DISA LINE:000000 |
| OR<br>Select all trunks. | [ALL] 123456<br>DISA LINE:000000 |
| OR<br>3. Press Volume button to select a Ring Plan (e.g. 3)<br>OR<br>Using the dial keypad, press 1 to select or 0 not to select the Ring Plan (e.g. 1 to select).<br>Press Right Soft button to return to step 2. | [704] 123456<br>DISA LINE:001000 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 500 SYSTEM-WIDE COUNTERS

# [411] ASSIGN E1 SIGNAL TYPE

Defines the type of signalling for each E1 trunk assigned to the module. There are four kinds of trunk, as detailed below. There are three types of signalling associated with E&M and DID. E1 channels (1-30) that are not used should have TYPE programmed as UN-USED.

| Trunk | Signalling | Comments |
|---|---|---|
| LOOP | BR_14301_NOT | BRAZIL, L, I, ERICSSON, 1/1914, FOR TEST |
| | BR_14301_OPT | BRAZIL, L, I, ERICSSON, 2/1914, FOR TEST |
| | RU_LOOP | RUSSIA, L, I/O, LOOP START |
| E&M | IMMEDIATE | COMMON, E/D, I/O, IMMEDIATE START |
| | DELAYED | COMMON, E/D, I/O, DELAY |
| | ITU_WINK | COMMON, E/D, I/O, WINK START |
| | ITU_WINK_MPD | COMMON, E/D, I/O, WINK START WITH MPD |
| | BR_CONTINU | BRAZIL, E/D, I/O, CONTINUE |
| | BR_PULSED | BRAZIL, E/D, I/O, PULSED |
| | BR_R2_DIGIT | BRAZIL, E/D, I/O, R2 DIGITAL |
| | BR_BLD_160 | BRAZIL, E, I/O, ERICSSON, 2/1914, 14102_N |
| | BR_BLD_157 | BRAZIL, E, I/O, ERICSSON, 2/1914, 14102_O |
| | BR_14102_NOT | BRAZIL, E, I/O, ERICSSON, 1/1914 |
| | BR_14102_OPT | BRAZIL, E, I/O, ERICSSON, 1/1914 |
| | RU_ADSE | RUSSIA, E/D, I/O, PABX |
| | RU_HARRIS_UK | RUSSIA, E/D, I/O, HARRIS, PABX, UK_EM |
| | RU_USER_ROM | RUSSIA, E/D, I/O, USER ROM |
| | AR_WINK | ARGENTINA, E/D, I/O, WINK |
| | AR_WINK_MPD | ARGENTINA, E/D, I/O, WINK-MPD |
| | CHINA_NO1 | CHINA, E/D, I/O, NO.1 OF CHINA |
| | POL_WINK_MPD | POLAND, E/D, I/O, POLAND WINK MPD |
| DID | IMMEDIATE | COMMON, E/D, I/O, IMMEDIATE START |
| | DELAYED | COMMON, E/D, I/O, DELAY |
| | ITU_WINK | COMMON, E/D, I/O, WINK START |
| | ITU_WINK_MPD | COMMON, E/D, I/O, WINK START WITH MPD |
| | BR_CONTINU | BRAZIL, E/D, I/O, CONTINUE |
| | BR_PULSED | BRAZIL, E/D, I/O, PULSED |
| | BR_R2_DIGIT | BRAZIL, E/D, I/O, R2 DIGITAL |
| | RU_ADSE | RUSSIA, E/D, I/O, PABX |
| | RU_HARRIS_UK | RUSSIA, E/D, I/O, HARRIS, PABX, UK_EM |
| | RU_USER_ROM | RUSSIA, E/D, I/O, USER ROM |
| | AR_WINK | ARGENTINA, E/D, I/O, WINK |
| | AR_WINK_MPD | ARGENTINA, E/D, I/O, WINK-MPD |
| | CHINA_NO1 | CHINA, E/D, I/O, NO.1 OF CHINA |
| | POL_WINK_MPD | POLAND, E/D, I/O, POLAND WINK MPD |
| UNUSE | - | - |

## CONDITIONS

An E1 module must be installed in the system, otherwise the message 'NO E1 TRUNK CARD' is displayed.


This MMC is not currently valid in the UK/EU.

## DEFAULT DATA

NONE

## ACTION / DISPLAY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 411.<br>Display shows: | [701] E1 SIGNAL<br>UNUSE |
| 2. Enter desired trunk number (e.g., 705)<br>OR<br>Press Volume button to make selection.<br>Press Right Soft button to move cursor. | [705] E1 SIGNAL<br>UNUSE |
| OR<br>Select all trunks. | [ALL] E1 SIGNAL<br>? |
| 3. Press Volume button to select trunk type and press Right Soft button to move cursor. | [705] E1 SIGNAL<br>E&M:IMMEDIATE |
| 4. Press Volume button to signalling select and press Right Soft button to move cursor. | [705] E1 SIGNAL<br>E&M:ITU_WINK |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

### TRUNK PROGRAMMING

| | |
|---|---|
| MMC 400 | CUSTOMER ON/OFF PER TRUNK |
| MMC 401 | TRUNK LINE/PBX LINE |
| MMC 402 | TRUNK DIAL TYPE |
| MMC 403 | TRUNK TOLL CLASS |
| MMC 404 | TRUNK NAME |
| MMC 405 | TRUNK CO TEL NUMBER |

| | |
|---|---|
| MMC 406 | TRUNK RING ASSIGNMENT |
| MMC 407 | FORCED TRUNK RELEASE |
| MMC 408 | ASSIGN TRUNK MOH SOURCE |
| MMC 409 | TRUNK STATUS READ |
| MMC 410 | ASSIGN DISA TRUNK |
| MMC 411 | ASSIGN E1 SIGNAL TYPE |
| MMC 412 | ASSIGN TRUNK SIGNAL |
| MMC 413 | VMS CALL TYPE |
| MMC 414 | MPD/PRS SIGNAL |
| MMC 415 | REPORT TRUNK ABANDON DATA |
| MMC 416 | ASSIGN E&M/DID RINGDOWN |
| MMC 417 | E1/PRI CRC4 OPTION |
| MMC 418 | BRI AND PRI CARD RESTART |
| MMC 419 | BRI OPTIONS |
| MMC 420 | PRI OPTIONS |
| MMC 421 | MSN DIGIT |
| MMC 422 | TRUNK COS |
| MMC 423 | S/T MODE |
| MMC 424 | BRI S0 MAPPING |
| MMC 426 | TRUNK GAIN CONTROL |
| MMC 433 | COST RATE |
| MMC 434 | CONNECTION STATUS |
| MMC 436 | TRUNK TMC GAIN |

# [412] ASSIGN TRUNK SIGNAL

Allows the assignment of analogue DID or E&M modules for proper signalling. These trunks can also use the translation tables in MMC 714.

| No | Signalling condition type |
|---|---|
| 0 | IMMEDIATE START |
| 1 | DELAYED START |
| 2 | WINK START |
| 3 | NO ANSWER BACK |
| 4 | DIRECT BACK |

## CONDITIONS

An analogue E&M/DID Trunk module must be installed in the OfficeServ 7400 system. Otherwise, the 'NO E&M/DID TRUNK' message is displayed.

## DEFAULT DATA

IMMEDIATE START

## ACTION / DISPLAY

1. Press Transfer button and enter 412.
   Display shows:

   ```
   [701] TRK SIGNAL
   IMMEDIATE START
   ```

2. Enter desired trunk number (e.g., 705)
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.
   OR
   Select all trunks.

   ```
   [705] TRK SIGNAL
   IMMEDIATE START_
   ```

   ```
   [ALL] TRK SIGNAL
   IMMEDIATE START_
   ```

3. Enter desired trunk type selection from above list.
   OR
   Press Volume button to make selection and press Right Soft button.

   ```
   [705] TRK SIGNAL
   WINK START
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 416 | ASSIGN E&M/DID RINGDOWN |
| MMC 714 | DID NUMBER AND NAME TRANSLATION |

# [413] VMS CALL TYPE

Defines the type of signalling for voice mail-assigned trunk.

| Type | Description | Default |
|---|---|---|
| AP | ANSWERING PHONE | NO |
| AT | AUDIO TEX | NO |
| AA | AUTO ATTENDANT | YES |
| VM | VOICE MAIL | NO |

## CONDITIONS

This program applies to the SVM-800 voice mail system which is no longer supplied or supported by Samsung.

## DEFAULT DATA

SEE TABLE

## ACTION

## DISPLAY

1. Press Transfer button and enter 413.
   Display shows:

```
[701] CTYPE AP:N
AT:N AA:Y VM:N
```

2. Enter desired trunk number (e.g., 702)
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.
   OR
   Select all trunks.

```
[702] CTYPE AP:N
AT:N AA:Y VM:N
```

3. Enter 1 for YES, or 0 for NO.
   OR
   Press Volume button to make selection and press Right Soft button.

```
[702] CTYPE AP:N
AT:N AA:Y VM:N
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [414] MPD/PRS SIGNAL

Used on a per-trunk basis to define if a Trunk line is to be either a Metering Pulse Detection (MPD) or a Polarity Reversal Signal (PRS) trunk.

An MPD Trunk will detect a C.O-provided meter pulse. A Polarity Reversal trunk will detect the line reversal signal which may be provided by the Trunk Line when the other party answers the outgoing call or the outside party clears the call.

| Type | Description |
|---|---|
| PRS 1 | When first PRS is detected, call duration timer is started. When second PRS is detected, call duration timer is stopped. The call is not released. |
| PRS 2 | When first PRS is detected, call duration timer is started. When second PRS is detected, call duration timer is stopped and the call is released. |
| PRS 3 | The call duration timer starts based on the timer. When first PRS is detected, call duration timer is stopped and call is released. |
| MPD | Metering Pulse Detection. |

## CONDITIONS

- If the trunk is designated as PRS, the call duration timer will be started and the results printed on the SMDR record.
- PRS is also essential for dropping a trunk-to- trunk conversation which is unsupervised by an internal party.

## DEFAULT DATA

NONE (NORMAL)

## ACTION

1. Press Transfer button and enter 414.
   Display shows:

   DISPLAY:
   ```
   [701] TRK PRS
   NONE
   ```

2. Dial desired trunk number (e.g., 705)
   OR
   Press Volume button to select trunk and use Right Soft button to move cursor.

   DISPLAY:
   ```
   [705] TRK PRS
   NONE
   ```

3. Dial 0 for PRS 1, 1 for PRS 2, 2 for PRS 3, 3 for MPD or 4 for NORMAL.
   OR
   Press Volume button to scroll through options and use Left or Right Soft button to return to step 2.

```
[705] TRK PRS
PRS 2
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC503 | TRUNK-WIDE TIMERS |

# [415] REPORT TRUNK ABANDON DATA

Allows the system administrator or technician to enable or disable the reporting of abandoned Trunk Line calls for which CLIP information has been collected on a per-trunk basis. There are two options for this MMC:

| No | Option | Description |
|---|---|---|
| 0 | REPORT: NO | Abandoned call records for incoming calls with CLIP information will not be printed on SMDR or stored in the system call abandon list. These records will continue to be stored in the station review list. |
| 1 | REPORT: YES | Abandoned call records for incoming calls with CLIP information will be printed on SMDR and stored in the system call abandon list. These records will also be stored in the station review list. |

## DEFAULT DATA

ALL TRUNKS REPORT: YES

## ACTION

## DISPLAY

1. Press Transfer button and enter 415.
   Display shows:

```
[701] TRK ABNDN
REPORT:YES
```

2. Dial trunk number (e.g., 705)
   OR
   Use Volume button to select trunk and press Right Soft button to move cursor.

```
[705] TRK ABNDN
REPORT:YES
```

3. Dial 1 for YES or 0 for NO
   OR
   Use Volume button to select option and press Right Soft button to return to step 2.

```
[705] TRK ABNDN
REPORT:NO
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 725 SMDR OPTIONS

# [416] ASSIGN E&M/DID RINGDOWN

This MMC defines which ring destination table an E&M or DID trunk will follow for incoming calls. There are three options for each trunk as defined below.

| No | Option | Description |
|---|---|---|
| 0 | FOLLOW INCOM DGT | When a trunk is set to this option, calls will ring at the destination that matches the digits received from the Trunk line. |
| 1 | FOLLOW DID TRANS | When a trunk is set to this option, calls will ring at the destination defined in MMC 714 that matches the digits received from the TRUNK LINE. |
| 2 | FOLLOW TRK RING | If this option is selected, press the Right Soft button and 'NO. RCV DIGIT' will appear on the display. Here is where the number of incoming digits from Trunk Line must be entered (0-4). When a trunk is set to this option, calls will ring at the destination defined in MMC 406 for that trunk. If the destination defined in MMC 406 is a VMAA port or group then the system will repeat the digits received from the CO to the port when it answers. |

## CONDITIONS

R2MFC trunk lines only support the 'FOLLOW INCOM DGT' and 'FOLLOW DID TRANS' options.

## DEFAULT DATA

FOLLOW INCOMING DIGIT

## ACTION / DISPLAY

1. Press Transfer button and enter 416.
   Display shows:

   ```
   [701] EM/DD RING
   FOLLOW INCOM DGT
   ```

2. Enter desired trunk number (e.g., 705)
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

   ```
   [705] EM/DD RING
   FOLLOW INCOM DGT
   ```

   OR
   Select all trunks.

   ```
   [ALL] EM/DD RING
   FOLLOW INCOM DGT
   ```

3. Dial option number (0~2)
   OR.
   Press Volume button to make selection and press Right Soft button to return step 2.
   If FOLLOW TRK RING is selected, the LCD display shows step 4.

   ```
   [705] EM/DD RING
   NO. RCV DIGIT:00
   ```

4. Enter the number of incoming digits.

```
[705] EM/DD RING
NO. RCV DIGIT:00
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 714 DID NUMBER AND NAME TRANSLATION

# [417] E1/PRI CRC4 OPTION

This option is used to enable/disable CRC4 generation and checking.

## CONDITIONS

- This is useful with some networks which do not support CRC4 framing but only PCM30 framing.
- After changing this option, MMC 418 must be used to restart the module to make the change effective.

## DEFAULT DATA

TEPRI CRC4: ON
TEPRI2 Port 1 CRC4: ON, Port 2 CRC4: OFF

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 417.<br>Display shows: | [701] E1/PRI CRC<br>ON |
| 2. Enter first trunk number in PRI module (e.g. 701)<br>OR<br>Press Volume button to select trunk and use Right Soft button to move cursor. | [701] E1/PRI CRC<br>ON |
| 3. Enter 1 for ON 0 for OFF.<br>OR<br>Press Volume button to select and press Right Soft button. | [701] E1/PRI CRC<br>OFF |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 418 BRI & PRI CARD RESTART

# [418] BRI AND PRI CARD RESTART

This MMC is used to restart a BRI or PRI module at the module level. This action is required to update the processor on the BRI or PRI module with any changes in the relevant MMCs and to put these changes into effect.

## CONDITIONS

- A BRI module or TEPRI module or TEPRI2 module must be installed in the system.
- Before setting the PRI program, the J2 jumper of the TEPRI or TEPRI2 module must be set ON to PRI mode.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 418.<br>Display shows first BRI or PRI circuit: | [725] RESTART<br>CARD RESTART?NO |
| 2. Dial first trunk on a BRI or PRI module (e.g., 733)<br>OR<br>Press Volume button to select the first trunk and press Right Soft button to move the cursor. | [733] RESTART<br>CARD RESTART?NO |
| 3. Dial 1 for YES or 0 for NO.<br>Pressing 1 will advance to step 4. | [733] RESTART<br>CARD RESTART?YES |
| 4. Dial 1 for YES or 0 for NO.<br>Pressing 1 or 0 will return to step 2. | [733] RESTART<br>ARE YOU SURE?YES |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 419 | BRI OPTIONS |
| MMC 420 | PRI OPTIONS |
| MMC 423 | S/T MODE |
| MMC 424 | BRI S0 MAPPING |

# [419] BRI OPTIONS

Assigns several options on a per-BRI basis. There are different options depending on whether the BRI is programmed as a trunk or station in MMC 423.

### OPTIONS FOR BRI PORTS PROGRAMMED AS TRUNKS

| No | Option | Description |
|---|---|---|
| 0 | CHANNEL ANY | When this option is set to YES, the system will place calls on any free channel of that BRI if the channel chosen by the user is busy. If set to NO, they will receive a busy signal if they attempt to access a busy channel even if the other channel on that BRI is free. |
| 1 | BRI MODE | BRI access mode select. |
| | P-P NOR | Point to Point NORmal. This operates like a standard telephone line with one CO number per channel and ring according to MMC 406. |
| | P-P DID | Point to Point Direct Inward Dial. This operates in a similar manner to an analogue DID circuit with multiple CO numbers pointed to a single channel and translated within the system (MMC714) to a single device. |
| | P-M NOR | Point to Multi-point NORmal. This type of circuit operates in a similar manner to P-P NORmal but allows multiple devices to be attached to the circuit. Ringing is defined in MMC 406. |
| | P-M MSN | Point to Multi-point MSN. This setting is used when the line uses the MSN supplementary service. Ringing is defined in MMC 421. |
| 2 | DLSEND | BRI dial sending mode select. |
| | ENBLOCK | Digits will be collected and sent in a single block similar to a cellphone. |
| | OVERLAP | Digits will be sent as they are dialled by the user. |
| 3 | CLIP TABLE | Used to select the Calling Party Number to send to the network. If NONE, MMC405 TRUNK CO TEL NUMBER is sent to the network; otherwise, the Calling Party Number entry in MMC 323 corresponding with the selected number is sent to the network. |
| 4 | NB TYPE | Used to select the type of the Calling Party Number to send to the network. |
| | UNKNOWN | Unknown number |
| | INT.NAT | International number |
| | NATIONAL | National number |
| | NETWORK | Network specific number |
| | SUBSCRIB | Subscriber number |
| | EXTEN | Local number |
| | ABBREV | Abbreviated number |

| No | Option | Description |
|---|---|---|
| 5 | NB PLAN | Used to select the type of the Calling Party Number Plan to send to the network. |
| | UNKNOWN | Unknown numbering plan |
| | ISDN | ISDN numbering plan (CCITT E.163-164) |
| | DATA | Data numbering plan (CCITT X.121) |
| | TELEX | Telex numbering plan (CCITT F.69) |
| | NATIONAL | National standard numbering plan |
| | PRIVATE | Private numbering plan |
| | EXTEN | Local numbering plan |

**OPTIONS FOR BRI PORTS PROGRAMMED AS STATIONS**

| No | Option | Description |
|---|---|---|
| 0 | ANY CHANNEL | When this option is set to YES, the system will place calls on any free channel of that BRI if the channel chosen by the user is busy (e.g., Preferred channel selection). If set to NO, the user will receive a busy signal if they attempt to access a busy channel even if the other channel on that BRI is free (e.g., Exclusive channel selection). |
| 1 | POWER FEED | This field determines if power to a BRI access will be supplied (YES or NO) |

## CONDITIONS

- A BRI module must be installed in the system. Otherwise, the 'NO BRI CARD' message is displayed.
- If any changes are made in this MMC, the BRI module that is affected by these changes MUST be restarted using MMC 418 in order for the changes to become effective.

## DEFAULT DATA

For BRI Ports programmed as Trunks:
CHANNEL ANY: YES
BRI MODE: P-P DDI
DLSEND: OVERLAP
CLIP TABLE: NONE
NB TYPE: NATIONAL
NB PLAN: ISDN

For BRI Ports programmed as Stations:
CHANNEL ANY : YES
POWER FEED : NO

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 419.<br>Display shows first BRI channel. | [725] BRI-TRK<br>CHANNEL ANY:YES |
| 2. Dial BRI trunk number (e.g., 727)<br>OR<br>Press Volume button to select BRI trunk and press Right Soft button. | [727] BRI-TRK<br>CHANNEL ANY:YES |
| 3. Select option item.<br>OR<br>Press Volume button to select option item and press Right Soft button. | [727] BRI-TRK<br>CHANNEL ANY:NO<br>[727] BRI-TRK<br>BRI MODE:P-M MSN<br>[727] BRI-TRK<br>DLSEND :OVERLAP<br>[727] BRI-TRK<br>CLIP TABLE :NONE<br>[727] BRI-TRK<br>NB TYPE:UNKNOWN |
| 4. Select option.<br>OR<br>Press Volume button to select BRI station and press Right Soft button. | [727] BRI-TRK<br>CLIP TABLE:1 |
| 5. Dial BRI station number (e.g., 729)<br>OR<br>Press Volume button to select BRI station and press Right Soft button. | [729] BRI-STN<br>CHANNEL ANY:YES |
| 6. Select option item.<br>OR<br>Press Volume button to select BRI station and press Right Soft button. | [729] BRI-STN<br>CHANNEL ANY:YES<br>[729] BRI-STN<br>POWER FEED :NO |
| 7. Select option.<br>OR<br>Press Volume button to select option item and press Right Soft button. | [729] BRI-STN<br>POWER FEED :YES |
| 8. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 323 | CALLING PARTY NUMBER |
| MMC 405 | TRUNK CO TEL NUMBER |
| MMC 418 | BRI & PRI CARD RESTART |
| MMC 421 | MSN DIGIT |
| MMC 423 | S/T MODE |
| MMC 714 | DID NAME AND NUMBER TRANSLATION |

# [420] PRI OPTIONS

This MMC allows the technician to program a PRI trunk module.

| No | Option | Description |
|---|---|---|
| 0 | CHANNEL ANY | When this option is set to YES, the system will place calls on any free channel of that PRI if the channel chosen by the user is busy. If set to NO, they will receive a busy signal if they attempt to access a busy channel even if the other channel on that PRI is free. |
| 1 | PRI MODE | PRI access mode select. |
| | NORMAL | Point to Point NORMAL. This operates like a standard telephone line with one CO number per channel and ring according to MMC 406. |
| | DID | Point to Point Direct Inward Dial. This operates in a similar manner to an analogue DID circuit with multiple CO numbers pointed to a single channel and translated within the system (MMC714) to a single device. |
| 2 | DLSEND | PRI dial sending mode select. |
| | ENBLOCK | Digits will be collected and sent in a single block similar to a cellphone. |
| | OVERLAP | Digits will be sent as they are dialled by the user. |
| 3 | CLIP TABLE | Used to select the Calling Party Number to send to the network. If NONE, MMC405 CO TRUNK NUMBER is sent to the network; otherwise, the Calling Party Number entry in MMC 323 corresponding with the selected number is sent to the network. |
| 4 | NB TYPE | Used to select the type of the Calling Party Number to send to the network. |
| | UNKNOWN | Unknown number |
| | INT.NAT | International number |
| | NATIONAL | National number |
| | NETWORK | Network specific number |
| | SUBSCRIB | Subscriber number |
| | EXTEN | Local number |
| | ABBREV | Abbreviated number |
| 5 | NB PLAN | Used to select the type of the Calling Party Number Plan to send to the network. |
| | UNKNOWN | Unknown numbering plan |
| | ISDN | ISDN numbering plan (CCITT E.163-164) |
| | DATA | Data numbering plan (CCITT X.121) |
| | TELEX | Telex numbering plan (CCITT F.69) |
| | NATIONAL | National standard numbering plan |
| | PRIVATE | Private numbering plan |
| | EXTEN | Local numbering plan |
| 6 | SAME CONNID | When this option is set to OFF, ISDN port is searched by CONN ID and if set to ON, searched by data channel id. |

## CONDITIONS

- Before setting the PRI program, the J2 jumper of the TEPRI or TEPRI2 module must be set to ON for PRI mode.
- After changing data in this program, run MMC 418 to apply the new settings.

## DEFAULT DATA

CHANNEL ANY: YES
PRI MODE: DDI
DLSEND: OVERLAP
CLIP TABLE: NONE
NB TYPE: NATIONAL
NB PLAN: ISDN

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 420.<br>Display shows: | [701] PRI OPTION<br>CHANNEL ANY:YES |
| 2. Dial first PRI trunk number in PRI module (e.g., 730)<br>OR<br>Press Volume button to make selection and press Right Soft button. | [730] PRI OPTION<br>CHANNEL ANY:YES |
| 3. Enter option number.<br>OR<br>Press Volume button to select option. | [730] PRI OPTION<br>PRI MODE:DDI |
| 4. Press Volume button to make selection.<br>Then press Right Soft button. | [730] PRI OPTION<br>PRI MODE:NORMAL |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 323 | CALLING PARTY NUMBER |
| MMC 405 | TRUNK CO TEL NUMBER |
| MMC 418 | BRI & PRI CARD RESTART |
| MMC 714 | DID NAME AND NUMBER TRANSLATION |

# [421] MSN DIGIT

Provides a method of assigning an incoming MSN call to a specific station. If any entry in the MSN DIGIT TABLE matches an incoming call's called party number, either the specific station is alerted, if it is programmed to accept the call, or the call is cleared if it is programmed to reject the call.

If the incoming called party number does not have a matching entry in the MSN table, MMC 406 ringing destination is alerted or the call is optionally released.

You can give each MSN number to a specific station and you can select the call waiting option: when a destination is busy, the incoming call must be cleared or camped-on to the station (which is alerted to the call).

## CONDITIONS

- A BRI module must be installed in the system. Otherwise, the 'NO BRI CARD' message is displayed.
- For each BRI access, two adjacent ports are assigned. You need only change the value for one of the two ports; the value for the other port will be changed automatically.

## DEFAULT DATA

1-6 : NONE
CW : YES
OPT : ACCEPT

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 421.<br>Display shows: | [701] MSN DGT (1)<br>DGT: |
| 2. Enter trunk number (e.g., 704)<br>OR<br>Press Volume button to scroll through ISDN ports and press Right Soft button to move cursor. | [704] MSN DGT (1)<br>DGT: |
| 3. Enter the location 1-8 (e.g., 4)<br>OR<br>Press Volume button to select location and press Right Soft button to move cursor. | [704] MSN DGT (4)<br>DGT: |
| 4. Enter digits to be translated (e.g., 4603881) via dial keypad and press Right Soft button to move to the destination selection (Max. Digit is 12) | [704] MSN DGT (4)<br>DGT:4603881 |

5. Enter destinations for the six ring plans via the dial keypad (e.g., 204 for ring plan 1)
   OR
   Press Volume button to make selection and press Right Soft button.

```
[704] MSN DGT (4)
1:204   2:NONE
```

6. Enter 1 for YES or 0 for NO.
   OR
   Press Volume button to make selection and press Right Soft button.

```
[704] MSN DGT (4)
CW:NO  OPT:ACEPT
```

7. Enter 1 for ACCEPT or 0 for REJECT.
   OR
   Press Volume button to make selection and press Right Soft button.

```
[704] MSN DGT (4)
CW:NO  OPT:ACEPT
```

8. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 423 S/T MODE

# [422] TRUNK COS

Used to assign a class of service to each trunk for each of the six ring plans available. There are 30 different classes of service that are defined in MMC 701, Assign COS Contents. Classes of service are numbered 01-30. Trunk COS applies on Tandem connections.

## DEFAULT DATA

ALL RING PLANS: COS 01

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 422.<br>Display shows first trunk: | [701] TRK COS<br>1:01 2:01 3:01 |
| 2. Dial trunk number (e.g., 705)<br>OR<br>Use Volume button to scroll through trunks.<br>Press Right Soft button to advance to step 3.<br>OR<br>Use Volume button to scroll through trunks and press Left Soft button to advance to step 4.<br>OR<br>Select all trunks. | [705] TRK COS<br>1:01 2:01 3:01<br><br><br><br><br>[ALL] TRK COS<br>1:01 2:01 3:01 |
| 3. Enter ring plan class of service (e.g., 05)<br>OR<br>Use Volume button to scroll through classes of service and press Right Soft button to advance to step 4.<br>OR<br>Use Volume button to scroll through classes of service and press Left Soft button to return to step 2. | [705] TRK COS<br>1:05 2:01 3:01 |
| 4. Enter the next ring plan class of service (e.g., 05)<br>OR<br>Use Volume button to scroll through classes of service and press Right Soft button to return to step 2.<br>OR<br>Use Volume button to scroll through classes of service and press Left Soft button to return to the previous step. | [705] TRK COS<br>1:05 2:05 03:01 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 701 ASSIGN COS CONTENTS

# [423] S/T MODE

Allows the technician to select whether a BRI circuit is a station port or a trunk port.

| No | Type | Description |
|---|---|---|
| 0 | TRUNK | The BRI trunk port used for ISDN trunk. |
| 1 | STATION | The BRI trunk port used for ISDN phone. |

## CONDITIONS

The BRI module must be installed in the system, otherwise the message 'NO BRI CARD' is displayed.

## DEFAULT DATA

NONE

## ACTION

## DISPLAY

1. Press Transfer button and enter 423.
   Display shows first BRI:

```
[725] S/T MODE
TRUNK
```

2. Dial trunk number (e.g., 727)
   OR
   Use Volume button to scroll through BRI numbers and press Right Soft button to move cursor.

```
[727] S/T MODE
TRUNK
```

   OR
   Select all.

```
[ALL] S/T MODE
TRUNK
```

3. Enter circuit type (e.g. station).
   OR
   Press Volume button to select option and press Right Soft button to return to step 2.

```
[727] S/T MODE
STATION
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 424 | BRI S0 MAPPING |
| MMC 418 | BRI AND PRI CARD RESTART |
| MMC 419 | BRI OPTIONS |
| MMC 421 | MSN DIGIT |

# [424] BRI S0 MAPPING

This MMC assigns an ISDN terminal number to a BRI station port.

## CONDITIONS

This function can be used only when the BRI card is installed in the system.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 424.<br>Display shows first terminal number: | [8701]S0 MAPPING<br>NONE |
| 2. Dial terminal number.<br>OR<br>Press Volume button to make selection of terminal numbers and press Right Soft button to advance cursor. | [8704]S0 MAPPING<br>NONE |
| 3. Dial BRI port number.<br>OR<br>Use Volume button to scroll through ports and press Right Soft button to return to step 2. | [8704]S0 MAPPING<br>712 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 419 | BRI OPTIONS |
| MMC 423 | S/T MODE |

# [426] TRUNK GAIN CONTROL

Allows loss levels to be adjusted on a per-trunk basis. There are two adjustments available in this MMC: 'TX' is the transmit level adjustment of the trunk to the station. 'RX' is the receive level adjustment of the station to the trunk.

There are four types of adjustment:

| No | Trunk Gain | Description |
|---|---|---|
| 0 | +0.0 | No adjustment |
| 1 | +1.9 | Up 1.9 dB |
| 2 | -6.0 | Down 6.0 dB |
| 3 | -2.5 | Down 2.5 dB |

## DEFAULT DATA

TX: +0.0
RX: +0.0

## ACTION

1. Press Transfer button and enter 426.
   Display shows:

   DISPLAY:
   ```
   [701] TRUNK GAIN
   RX:+0.0  TX:+0.0
   ```

2. Enter desired trunk number (e.g., 705) via the dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.
   OR
   Select all.

   DISPLAY:
   ```
   [705] TRUNK GAIN
   RX:+0.0  TX:+0.0
   ```
   ```
   [ALL] TRUNK GAIN
   RX:+0.0  TX:+0.0
   ```

3. Press Volume button to make selection and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [705] TRUNK GAIN
   RX:+0.0  TX:+0.0
   ```

4. Press Volume button to make selection and press Right Soft button to move cursor and return to step 1.

   DISPLAY:
   ```
   [701] TRUNK GAIN
   RX:+0.0  TX:-2.5
   ```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [428] ASSIGN TRUNK/TRUNK USE

This MMC is used to allow or restrict trunks from making outgoing calls to other trunks within the same system. By default (DIAL=YES) all trunks can use other trunks. To prevent use, select NO.

## DEFAULT DATA

DIAL: YES

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 428.<br>Display shows: | (301) USE (301)<br>DIAL:YES |
| 2. Dial the trunk use group number (e.g., 305)<br>OR<br>Press Volume button to selection and press Right Soft button.<br>OR<br>Select all trunk use groups. | (305) USE (301)<br>DIAL:YES<br><br>(ALL) USE (301)<br>DIAL:YES |
| 3. Dial the trunk use group number (e.g., 304)<br>OR<br>Press Volume button to selection and press Right Soft button. | (305) USE (304)<br>DIAL:YES |
| 4. Dial 1 for YES or 0 for NO.<br>OR<br>Press Volume button to select YES/NO and press Right Soft button to move cursor. | (305) USE (304)<br>DIAL:NO |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 614 STATION/TRUNK USE GROUP

# [432] SET H-TRK

Defines the type of signalling for each H-trunk assigned.

## DEFAULT DATA

E&M

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 432.<br>Display shows: | [701] SET H-TRK<br>E&M |
| 2. Enter desired trunk number (e.g., 705)<br>OR<br>Press Volume button to make selection.<br>Press Right Soft button to move cursor.<br>OR<br>Select all trunks. | [705] SET H-TRK<br>E&M<br><br>[ALL] SET H-TRK<br>E&M |
| 3. Press Volume button to select trunk type and press Right Soft button to move cursor. | [705] SET H-TRK<br>DID |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [433] COST RATE

In this MMC, the TRUNK COST RATE flags are entered for each trunk. DIAL PLANs are defined in MMC 746 (Costing Dial Plan). RATE CALCULATION TABLES are defined in MMC 749. Each trunk may be defined with up to eight cost rates. Enter one or more of the eight COST RATES per trunk. If an entry is left blank, no call costing will be calculated for that particular DIAL PLAN.

Call type 8 is fixed for incoming calls. Select cost rate type 8 only if you want incoming call costing for a trunk.

## DEFAULT DATA

ALL TRUNKS/ALL DIAL PLANS: ALL COST RATES ASSIGNED

## ACTION / DISPLAY

1. Press Transfer button and enter 433.
   Display shows trunk number and Cost Rate table numbers:

```
[701]  :12345678
CR     :11111111
```

2. Dial trunk number (e.g., 705)
   OR
   Press Volume button to select trunk and press Right Soft button to move cursor.
   OR
   Select all.

```
[705]  :12345678
CR     :11111111
```

3. Press Volume button to move cursor along the line until the cursor is under the Cost Rate number (e.g., 2).
   Enter 1 for YES or 0 for NO (and press Right Soft button to return to step 1 if required).

```
[701]  :12345678
CR     :10111111
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 746 | COSTING DIAL PLAN |
| MMC 747 | RATE CALCULATION TABLE |

# [434] CONNECTION STATUS

This read-only MMC will confirm the connection status of stations or trunks. Display status displays the status of a station or trunk at the time requested. If a conference is in progress with the selected trunk or station, the display will show one of the conference parties and an arrow (→). The technician or system administrator can then display the other parties in the conference. If a station or trunk is in an idle state, the display will show 'IDLE'. If the station or trunk selected is not a valid selection, the display will show 'INVALID DATA'. If the station or trunk is made busy by the CPU, the display will show 'MADE BUSY'. If the station is in busy state with no other connection, the display will show 'BUSY' only.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| **Display trunk connection status** | |
| 1. Press Transfer button and enter 434. | DISPLAY STATUS<br>201 IDLE |
| 2. Enter station or trunk number.<br>Display shows connection status: | DISPLAY STATUS<br>702 227 |
| 3. Enter another station or trunk.<br>OR<br>Press Transfer button to exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | DISPLAY STATUS<br>702 227 |
| **Display station connection status** | |
| 1. Press Transfer button and enter 434. | DISPLAY STATUS<br>201 IDLE |
| 2. Enter station or trunk number.<br>Display shows connection status. | DISPLAY STATUS<br>235 715 |
| 3. Enter another station or trunk.<br>OR<br>Press Transfer button to exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | DISPLAY STATUS<br>235 715 |

**Display trunk status in conference**

1. Press Transfer button and enter 434.

```
DISPLAY STATUS
201  IDLE
```

2. Enter station or trunk number.
   Display shows connection status:

```
DISPLAY STATUS
702  227 ,215 →
```

3. Press Right Soft button to display the next station or trunks involved.

```
DISPLAY STATUS
702  216     →
```

4. Enter another station or trunk.
   OR
   Press Transfer button to exit.
   OR
   Press Speaker button to save and advance to next MMC.

```
DISPLAY STATUS
216  702 ,227 →
```

**Display status no connection**

1. Press Transfer button and enter 434.

```
DISPLAY STATUS
201  IDLE
```

2. Enter station or trunk number.
   Display shows connection status.

```
DISPLAY STATUS
702  NONE
```

3. Enter another station or trunk.
   OR
   Press Transfer button to exit.
   OR
   Press Speaker button to save and advance to next MMC.

```
DISPLAY STATUS
702  NONE
```

**Display status no connection**

1. Press Transfer button and enter 434.

```
DISPLAY STATUS
201  IDLE
```

2. Enter invalid station or trunk number.
   Display shows INVALID DATA:

```
DISPLAY STATUS
INVALID DATA
```

3. Enter another station or trunk.
   OR
   Press Transfer button to exit.
   OR
   Press Speaker button to save and advance to next MMC.

```
DISPLAY STATUS
201  IDLE
```

**Display connection status with invalid trunk or station number**

1. Press Transfer button and enter 434.

```
DISPLAY STATUS
201  IDLE
```

2. Enter invalid station or trunk number
   Display shows INVALID DATA:

```
DISPLAY STATUS
INVALID DATA
```

3. Enter another station or trunk.
   OR
   Press Transfer button to exit.
   OR
   Press Speaker button to save and advance to next MMC.

```
DISPLAY STATUS
201  IDLE
```

**Display connection status with trunk or station number in maintenance busy**

1. Press Transfer button and enter 434.

```
DISPLAY STATUS
201  IDLE
```

2. Enter station or trunk number.
   Display shows connection status:

```
DISPLAY STATUS
725  MADE BUSY
```

3. Enter another station or trunk.
   OR
   Press Transfer button to exit.
   OR
   Press Speaker button to save and advance to next MMC.

```
DISPLAY STATUS
725  MADE BUSY
```

## RELATED ITEMS

| | |
|---|---|
| MMC 108 | STATION STATUS |
| MMC 409 | TRUNK STATUS READ |

# [436] TRUNK TMC GAIN

Allows loss levels of TMC for analogue trunks to be adjusted on a per-trunk basis. There are two adjustments available in this MMC: 'TX' is the transmit level adjustment of the trunk to the station. 'RX' is the receive level adjustment of the station to the trunk.

## DEFAULT DATA

TX: +0 dB
RX: +0 dB

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 436.<br>Display shows: | [701] TMC GAIN<br>RX:+0 dB TX:+0 dB |
| 2. Enter desired trunk number (e.g., 705) via the dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [705] TMC GAIN<br>RX:+0 dB TX:+0 dB |
| OR<br>Select all. | [ALL] TMC GAIN<br>RX:+0 dB TX:+0 dB |
| 3. Press Volume button to make selection and press Right Soft button to move cursor. | [705] TMC GAIN<br>RX:+0 dB TX:+0 dB |
| 4. Press Volume button to make selection and press Right Soft button to move cursor and return to step 2. | [701] TMC GAIN<br>RX:+0 dB TX:-2 dB |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [500] SYSTEM-WIDE COUNTERS

Used to set the values of the system counters. The counters are listed below with a brief description of each.

| No | Counter | Default | Description |
|---|---|---|---|
| 0 | ALARM REM. CNTER | 5 | The number of times that an alarm reminder will ring a station before cancelling. RANGE = 1-99. |
| 1 | AUTO RDL COUNTER | 5 | The number of times the system will redial an outside number after the auto redial feature has been activated. RANGE = 1-99. |
| 2 | DISA CALL CNTER | 99 | Sets the maximum number of intercom calls that can be made after accessing a DISA line. RANGE = 1-99. |
| 3 | DISA LOCK CNTER | 3 | Number of attempts the system will allow to incorrectly access a DISA line before locking out the DISA line. RANGE = -99 |
| 4 | NEW CALL COUNTER | 99 | Number of times the system will allow a user to signal New Call on a Trunk line during one call. RANGE = 1-99. |
| 5 | UCDS VISUAL ALARM | 0 | Used to set the Visual alarm threshold. It is triggered when the number of calls waiting to be answered in the UCD group reaches this value. RANGE = 0-25. |
| 6 | UCDS AUDIO ALARM | 0 | Used to set the Audio alarm threshold. It is triggered when the number of calls waiting to be answered in the UCD group reaches this value. RANGE = 0-25. |
| 7 | UCD CS LEVEL 1 | 0 | Provides call wait indication level 1 if number of calls waiting to be answered in UCD group reaches this value. RANGE = 0-25. |
| 8 | UCD CS LEVEL 2 | 0 | Provides call wait indication level 2 if number of calls waiting to be answered in UCD group reaches this value. RANGE = 0-25. |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 500.<br>Display shows: | ALARM REM.CNTER<br>05→ |
| 2. Enter number from above list (e.g., 6)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | UCDS AUDIO ALARM<br>00→ |
| 3. Enter in new value via dial keypad.<br>If entry is valid, system will return to step 2. | UCDS AUDIO ALARM<br>00→02 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [501] SYSTEM TIMERS

Allows the technician to adjust individual timers as necessary.

## TIMER TABLE

| Timer Name | Default | Range Unit | Description |
|---|---|---|---|
| ALARM TIME | 100 | 0-2500 MIN | This is the time the system alarm key will start ringing after the alarm key has been silenced. |
| ALERT TONE TIME | 1000 | 100-2500 MSEC | This timer sets the duration of the attention tone preceding a call to a phone in the Voice Announce or Auto Answer mode. This tone will also precede a forced Auto Answer call. |
| ALM REM.INTERVAL | 25 | 1-250 SEC | This timer controls the time between ring attempts at a station when alarm reminder is set. |
| ALM REM RING OFF | 10 | 1-25 SEC | This timer controls the length of the ring cycle duration when an alarm reminder is set at a station. |
| ATT. RECALL TIME | 30 | 0-250 SEC | This controls how long a transfer recall will ring at a station before recalling the operator. |
| AUTO REDIAL INT. | 30 | 1-250 SEC | This timer controls the time between attempts after RETRY dialling is set on a station. |
| AUTO REDIAL RLS. | 45 | 1-250 SEC | This timer controls the duration of a Ring No Answer condition on a retry number dialled before the auto redial is automatically cancelled. |
| BOOTH TIME OUT (Hotel application only) | 005 | 0-250 MIN | Controls the time for which a booth phone is enabled. |
| CALLBACK NO ANS | 30 | 1-250 SEC | This timer controls the time before the callback is automatically cancelled when a callback detects Ring No Answer. |
| CAMP ON RECALL | 30 | 0-250 SEC | This timer controls the time a camped-on call will stay at a destination before recalling to the transferring station. |
| CID MSG RECEIVE | 6 | 1-25 SEC | The amount of time that the system will allow a valid message from the analogue CID trunk. |
| CID DSP ALLOC TM | 500 | 000-500 MSEC | Caller ID (CLI) Digital Signal Processor Allocation timer - the length of time the DSP is in-circuit to decode analogue Caller ID. |
| CLI DISPLAY TIME | 5 | 1-25 SEC | The amount of time that the Caller ID information remains on the phone's display. |
| CO CLEAR TIME | 30 | 0-250 SEC | The length of time a Direct Trunk Select key remains busy after cleardown. |

| Timer Name | Default | Range Unit | Description |
|---|---|---|---|
| CO CONFIRM TIME | 3 | 0-250 MIN | According to MMC 314 CO CONFIRM type, the outgoing call will be disconnected after this timer expires or the outgoing caller will hear the confirm tone. |
| CO-CO DISCONNECT | 20 | 1-250 MIN | This timer monitors the duration of an unsupervised conference; when it expires, both trunks are disconnected. |
| CONFIRM TONE TM | 1000 | 100-2500 MSEC | The tone heard when a feature is activated or deactivated. |
| CRD TONE INT TM | 30 | 0-250 SEC | This is the call record tone interval time. An entry other than zero will cause a tone to be heard by all the parties in a recorded conversation. The range for the tone is 001(every second) to 255 (every 255 seconds). A value of 000 means no tone. Requires an SVMi module. |
| DIAL PASS TIME | 3 | 0-25 SEC | This timer monitors the time before connecting the transmit of the phone to the trunk side of an outgoing call. |
| DISA DISCONNECT | 30 | 1-250 MIN | This timer controls the maximum duration of a DISA call. |
| DISA LOCK OUT TM | 30 | 1-250 MIN | This timer controls how long a DISA call is not allowed to be made after the DISA error counter has expired (MMC 500). |
| DISA NOANS DISC. | 30 | 0-250 SEC | This timer determines when a DISA call is disconnected by force when a called party does not answer. |
| DISA PASS CHECK | 30 | 1-250 MIN | This timer defines the period before the system clears the incorrect passcode counter. |
| DISA NO ACTION | 10 | 0-250 SEC | This timer controls how long a DISA line will wait for further action from the caller. |
| DISPLAY DELAY TM | 2 | 1-250 SEC | This timer controls how long a display is shown in the LCD and how long error tone is heard. |
| DOOR LOCK RELES. | 500 | 100-2500 MSEC | This timer controls how long the door lock relay will be activated. |
| DOOR RING DETECT | 50 | 10-250 MSEC | This timer controls the time before a call is answered by the door phone. |
| DOOR RING OFF TM | 30 | 1-250 SEC | This timer controls the duration of ringing at the door ring destination before automatically cancelling. |
| E-HOLD RECALL TM | 45 | 0-250 SEC | This timer controls how long a call is held exclusively at a station before recalling. |

| Timer Name | Default | Range Unit | Description |
|---|---|---|---|
| FIRST DIGIT TIME | 10 | 1-250 SEC | This timer controls how long the system will wait for dialling to begin before dropping the dial tone and returning the you to error tone. |
| HOK FLASH MAX TM | 120 | 20-2500 MSEC | This timer monitors the duration of a hook-switch flash to ensure that the flash is valid and not a line noise or an accidental hook-switch bounce LONGEST duration. |
| HOK FLASH MIN TM | 80 | 20-2500 MSEC | This timer monitors the duration of a hook-switch flash to ensure that the flash is valid and not a line noise or an accidental hook-switch bounce SHORTEST duration. |
| HOOK OFF TIME | 100 | 20-2500 MSEC | This timer controls the time before dial tone is sent to a single line station. |
| HOOK ON TIME | 200 | 20-2500 MSEC | This timer sets the minimum amount of time that the system will recognize as an SLT hang up. |
| INQUIRY RELEASE | 30 | 1-250 SEC | This timer monitors the duration of the interaction of the Soft button to determine when to return the LCD back to a normal status. This timer affects only display phones. |
| INTER DIGIT TIME | 10 | 1-250 SEC | This timer controls the grace period between dialling valid digits before dropping the call and returning you back to error tone. |
| ISDN INT DGT TM | 7 | 1-15 SEC | This timer controls the grace period between dialling valid digits and the end of the dialling string on an ISDN call. |
| KMMC LOCK OUT TM | 60 | 10-50 SEC | This timer controls the grace period between programming actions while in a programming session. The timer automatically returns the system to secure programming status. |
| LCR ADVANCE TIME | 5 | 1-250 SEC | This timer controls the time before selecting the next allowable route when a station is allowed to route advance. |
| LCR INTER DIGIT | 5 | 1-250 SEC | This timer controls the grace period between dialling valid digits before accessing a trunk. |
| LONG KEY DETECT | 600 | 0-2500 MSEC | This timer controls the time a key must be held down before the key press is repeated. |
| LONG KEY REPEAT | 300 | 0-2500 MSEC | This timer controls the time between repeated digits on a long key press. |
| MCL DELAY TIME | 4 | 0-9 SEC | This timer controls the time when the system should start transmitting Authorisation Code after sending MCL access code (Cable & Wireless 131 access). Available in UK only. |
| MS LED ON TIME | 5 | 1-10 SEC | This timer controls the duration a Manual Signalling key will remain on after use. |

| Timer Name | Default | Range Unit | Description |
|---|---|---|---|
| OFF HOOK RING INT | 15 | 1-250 SEC | This timer controls the time between ring bursts to a user who has a camped-on call. |
| OHVA ANSWER TIME | 10 | 1-250 SEC | This timer controls the time allowed to answer an OHVA call before automatic rejection. |
| PAGE TIME OUT | 20 | 1-250 SEC | This timer controls the duration of a page announcement. |
| PAGE TONE TIME | 500 | 100-2500 MSEC | This timer controls the duration of tone burst heard over the page prior to the page announcement. |
| PARK RECALL TIME | 45 | 0-250 SEC | This timer controls how long a call is parked before recalling to the call park originator. |
| PC-MMC LOCK TIME | 5 | 1-60 MIN | This timer monitors PC programming activity, drops the link if no action is created and returns the system back to secure program status. |
| PERI UCD REPORT | 5 | 3-99 SEC | This timer determines the interval between periodic UCD reports provided to an SIO port. |
| POWER DOWN TIME | 2000 | 500-9900 MSEC | This timer monitors the power to the ROM pack to begin shutdown status. |
| RECALL DISCONNECT | 2 | 1-250 MIN | This is the time an attendant recall will ring before being disconnected. |
| RECALL WAIT TIME | 15 | 0-250 SEC | This is the time any recall (hold or transfer) continues to recall at your station before it recalls to the operator. |
| ROUTE OPTIMISE | 5 | 0-250 SEC | When a call is made via Q-SIG signalling, route optimization is activated after this time. |
| SMDR START /DP | 30 | 1-250 SEC | This grace period timer starts SMDR recording for rotary dialling. |
| SMDR START /DTMF | 15 | 1-250 SEC | This grace period timer starts SMDR recording for touchtone dialling. This timer also controls the LCD duration timer on the phones. The duration time displayed and the SMDR time duration will be the same. |
| SYS HOLD RECALL | 45 | 0-250 SEC | This timer determines the time calls can be left on hold before recalling to the holding station. This is a system-wide timer. Setting the timer to 000 means that no recalling will take place. |
| TRANSFER RECALL | 20 | 0-250 SEC | This timer determines how long transferred calls ring before recalling. This is a system-wide timer. |

| Timer Name | De-fault | Range Unit | Description |
|---|---|---|---|
| TRK AUTOMOH DISC | 60 | 1-250 SEC | When set to ON, incoming trunk calls are connected to MOH automatically after the DISA ANSWR timer (MMC 503) expires. In this case the caller hears MOH. If the TRK AUTOMOH DISC timer expires before the call is answered, the call is disconnected. |
| TSW CONN. DELAY | 0 | 0-10 SEC | When an incoming trunk makes an outgoing call to another trunk, the system connects the voice path after this time. |
| UCDS AUDIO ALARM | 0 | 0-990 SEC | When an SVMi-20E module is installed and the digital UCD package enabled, this counter determines the maximum number of seconds a call has been waiting at the UCD group before the UCD group's SUPV key begins to flash along with an audio alarm. For more UCD alarm conditions, see MMC 500. |
| UCDS VISUAL ALARM | 0 | 0-250 SEC | When an SVMi-20E module is installed and the digital UCD package enabled, this counter determines the maximum number of seconds a call at the UCD group before the UCD group's SUPV key begins to flash as an alarm. For more UCD alarm conditions, see MMC 500. |
| VOIP RE-ROUTE TM | 15 | 0-25 SEC | If an outgoing call made via a VoIP trunk does not receive an acknowledgement message from the called party within this time, the call is treated as failed. |

NOTE

Some timers are disabled when their value is set to '0'.

## DEFAULT DATA

SEE DESCRIPTION
SOME TIMERS DEPEND ON COUNTRY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 501.<br>Display shows first timer value: | AA INT DGT TIME<br>05 SEC→ |
| 2. Press Volume button to select timer and press Right Soft button to move cursor. | KMMC LOCK OUT TM<br>060 SEC→ |
| 3. Enter new value using keypad; if valid, system returns to step 2 with new value. | KMMC LOCK OUT TM<br>060 SEC→250 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [502] STATION-WIDE TIMERS

Allows certain station timer values to be changed on a per-station basis or for all stations.

| No | Item | Description |
|---|---|---|
| 0 | NO ANS FWD | This timer controls how long the station will ring before Forward on No Answer takes place (1-250 sec) |
| 1 | DTMF DUR. | This timer governs the duration of DTMF digits which are transmitted to an external VMS system port. This can be used when a VMS system fails to recognise the default DTMF digit duration being transmitted from the SLT port (100-9900 ms) |
| 2 | F-DGT DELY | This timer will be valuable for the system administrator to insert a suitable delay before generating DTMF digits for In-Band integration (100-9900 ms) |
| 3 | OFFHK SEL. | This timer controls the grace period before placing an internal/external call as programmed in MMC 306 (0-250 sec) |
| 4 | EFWD DELAY | This timer controls the External Call Forward feature which will allow a station to ring before the call is placed on external call forwarding. (1-250 sec) |
| 5 | CC RNG DLY | If a station does not answer an incoming call within this time, other stations with a CC key for that station will ring. |

## CONDITIONS

NONE

## DEFAULT DATA

NO ANS FWD: 015 SEC
DTMF DUR: 100 MSEC
F-DGT DELY: 600 MSEC
OFFHK SEL: 008 SEC
EFWD DELAY: 010 SEC
CC RNG DLY: 010 SEC

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 502.<br>Display shows: | [201] NO ANS FWD<br>015 SEC→ |
| 2. Dial station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button.<br>OR<br>Select all stations and press Right Soft button. | [205] NO ANS FWD<br>015 SEC→_<br><br>[ALL] NO ANS FWD<br>015 SEC→_ |
| 3. Enter new value (must be three digits) via dial keypad (e.g., 020)<br>System will return to step 2. | [205] NO ANS FWD<br>015 SEC→020 |
| 4. Dial timer number from above list (e.g., 1)<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | [205] DTMF DUR.<br>0100 MS →_ |
| 5. Enter new timer value (must be four digits, e.g., 0200)<br>System returns to step 2. | [205] DTMP DUR.<br>0100 MS →0200 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 102 | CALL FORWARD |
| MMC 306 | HOT LINE/OFF HOOK SELECTION |

# [503] TRUNK-WIDE TIMERS

Allows certain trunk timer values to be changed on a per-trunk basis or for all trunks.

**It is not advisable to change these values, with the exception of trunk Flash Time, without assistance from Technical Support.**

| No | Item | Description | Range |
|---|---|---|---|
| 00 | ANS.BAK TM | ANSWER BACK TIME. This timer is used for certain types of E & M signalling and does not affect normal CO lines. | 0-2500 MSEC |
| 01 | CLEARING | This timer ensures that a call is fully disconnected at the CO by preventing CO access outgoing or receiving incoming ring between a disconnect and the expiration of this timer. | 100-9900 MSEC |
| 02 | CO SUPV TM | CO SUPERVISION TIME. this is the minimum length of loop open disconnect received from the CO that will be seen as a valid hang up on the system. | 10-2500 MSEC |
| 03 | DTMF DUR. | DTMF DURATION. This is the length of the DTMF digits that will be sent to the CO on this line. | 100-9900 MSEC |
| 04 | F-DGT DELY | First-DIGIT DELAY. This is the length of time the system will wait for CO line conditions to stabilize after seizure before sending DTMF digits. | 100-9900 MSEC |
| 05 | FLASH TIME | This is the duration of the momentary open sent on a circuit when FLASH key is pressed. | 20-2500 MSEC |
| 06 | NO RING TM | This is the length of time the system will wait after detecting a ring burst on a line before deciding the call has disconnected. | 1-25 SEC |
| 07 | PAUSE TIME | This is the length of time the system will wait before sending the next digit for a pause in a speed dial bin. | 1-25 SEC |
| 08 | PRS DET TM | This means the duration of PRS signal pulse. If the PRS signal is reversed when opposite party is answered and maintain the status before the opposite party disconnect the call, the PRS DET TM must be set to 0. | 0-2500 MSEC |
| 09 | RNG DET TM | RING DETECT TIME. This is the minimum length of ring signal the system will regard as a valid ring. | 10-2500 MSEC |
| 10 | WINK TIME | This is the duration of the acknowledgment signal that the system will send on an E&M circuit | 100-300 MSEC |
| 11 | MF/DP INT | This is the interval between sending digit. In case of DTMF signal, over the 500ms will be serviced as 100 ms. | 100-9900 MSEC |
| 12 | MFR DLY TM | This is a delay time to allocate the MFR after incoming trunk is detected. This is to prevent the wrong detection of DTMF signal by noise. | 0-25 SEC |

| No | Item | Description | Range |
|---|---|---|---|
| 13 | DISA ANSWR | This is a delay time to answer the DISA trunk call or to answer the trunk when TRK AUTO ANSWER is set to ON (MMC400). | 0-9 SEC |
| 14 | CONN DELAY | This is the delay time to connect a voice path when users make outgoing calls via a loop trunk. This is to prevent users hearing noise when the loop trunk is seized. | 0-2500 MSEC |

## DEFAULT DATA

ANS.BAK TM: 0600 MSEC
CLEARING: 2000 MSEC
CO SUPV TM: 0400 MSEC
DTMF DUR.: 0100 MSEC
F-DGT DELY: 0600 MSEC
FLASH TIME: 0090 MSEC
NO RING TM: 04 SEC
PAUSE TIME: 03 SEC
PRS DET TM: 0000 MSEC
RNG DET TM: 0300 MSEC
WINK TIME: 200 MSEC
MF/DP INT: 0800 MSEC
MFR DLY TIME: 00 SEC
DISA ANSWR: 01 SEC
CONN DELAY: 0000 MSEC

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 503.<br>Display shows: | `[701] ANS.BAK TM`<br>`0600 MS →` |
| 2. Dial trunk number (e.g., 704)<br>OR<br>Press Volume button to select trunk and press Right Soft button to move cursor. | `[704] ANS.BAK TM`<br>`0600 MS →` |
| OR<br>Select all trunks. | `[ALL] ANS.BAK TM`<br>`0600 MS →_` |
| 3. Dial timer number from the list.<br>OR<br>Press Volume button to select timer and press Right Soft button to move cursor. | `[704] DTMF DUR.`<br>`0100 MS →_` |
| 4. Enter new timer value (must be four digits, e.g., 0200)<br>System returns to step 2. | `[704] DTMF DUR.`<br>`0100 MS → 0200` |

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [504] PULSE MAKE/BREAK RATIO

Allows the ability to change the value of pulses per second and the duration of the make/break time. This will only affect rotary dial trunks.

| No | Item | Description |
|---|---|---|
| 0 | MAKE/BREAK RATIO | Make/Break ratio of dial pulse (01-99) |
| 1 | PULSE PER SECOND | Number of dial pulses per second (10 or 20) |

## DEFAULT DATA

MAKE/BREAK: 33 MAKE
PULSES PER SECOND: 10 PPS

## ACTION

1. Press Transfer button and enter 504.
   Display shows:

   DISPLAY:
   ```
   MAKE/BREAK RATIO
   33 MAKE →
   ```

2. Dial 0 or 1 for option.
   OR
   Press Volume button for selection and press Right Soft button to move cursor.

   DISPLAY:
   ```
   PULSE PER SECOND
   10 PPS →_
   ```

3. Dial new value.
   System returns to step 2.

   DISPLAY:
   ```
   PULSE PER SECOND
   10 PPS → 20
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 402 TRUNK DIAL TYPE

# [505] ASSIGN DATE AND TIME

Allows the system date and time to be set. This will set the system-wide clock.

| Type | Description | Range |
|---|---|---|
| YY | Year | 00-99 |
| MM | Month | 01-12 |
| DD | Date | 01-31 |
| W | Day | 0-6 (0: SUN, 1: MON, 2: TUE, 3: WED, 4: THU, 5: FRI, 6: SAT) |
| HH | Hour | 00-23 |
| MM | Minute | 00-59 |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 505.
   Display shows:

   DISPLAY:
   ```
   OLD:0111095:0901
   NEW:YYMMDDW:HHMM
   ```

2. Enter new time and date using above table.
   System returns to step 2.

   DISPLAY:
   ```
   OLD:0111095:0901
   NEW:0111121:1445
   ```

3. Verify time and date.
   Re-enter if necessary.

   DISPLAY:
   ```
   OLD:0111121:1445
   NEW:YYMMDDW:HHMM
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 861 SYSTEM OPTIONS (AUTO UPDATE TIME)

# [506] TONE CADENCE

Provides the ability to customize the tone cadence on a system-wide basis. The system provides 11 types of tone and three types of tone provided from Central Office or a PBX system can be detected.

**Please call Technical Support before changing any cadences as some systems may require default settings.**

| No | Item | Description |
|---|---|---|
| 00 | BUSY TONE | The called station is busy. |
| 01 | CONFM/BARGE | A feature has been successfully activated/cleared or a Barge-In with Tone has been performed. |
| 02 | DIAL TONE | The system is ready to interpret key presses/dialled digits. |
| 03 | DND/NO MORE | The called station is in DND or has no free CALL buttons. |
| 04 | ERROR TONE | An error has been made. |
| 05 | HOLD/CAMPON | This is the system generated hold tone. |
| 06 | MSGWAT TONE | This is the tone heard at an SLT with a message waiting. |
| 07 | RGBACK TONE | The called station is ringing. |
| 08 | RING TONE | This is the tone heard from a ROP device or Loud Bell when these devices are called. |
| 09 | TRANSFER TONE | This is the tone heard when the transfer button is pressed or an SLT hook flashes. |
| 10 | DID RNGBACK | This is the tone heard by the outside party when they dial a DID number. |
| 11 | CO BUSY | This is used to detect the busy tone provided from Central Office or a PBX system. |
| 12 | CO RINGBACK | This is used to detect the ring back tone provided from Central Office or PBX system. |
| 13 | CO DIAL | This is used to detect the dial tone provided from Central Office or PBX system. |

## DEFAULT DATA

(unit: milliseconds)

| TONE | ON | OFF | ON | OFF |
|---|---|---|---|---|
| BUSY TONE | 500 | 500 | 500 | 500 |
| CONFIRM/BARGE-IN | 200 | 200 | 200 | 5000 |
| DIAL TONE | CONTINUOUS | | | |

(unit: milliseconds)

| TONE | ON | OFF | ON | OFF |
|---|---|---|---|---|
| DND/NO MORE TONE | 250 | 250 | 250 | 250 |
| ERROR TONE | 500 | 500 | 500 | 500 |
| HOLD/CAMP-ON TONE | 500 | 3500 | 500 | 3500 |
| MESSAGE WAIT TONE | 1000 | 250 | 1000 | 250 |
| RING BACK TONE | 400 | 200 | 400 | 2000 |
| RING TONE | 1000 | 3000 | 1000 | 3000 |
| TRANSFER TONE | 100 | 100 | 100 | 100 |
| DID RINGBACK TONE | 1000 | 3000 | 1000 | 3000 |
| CO BUSY TONE | 350 | 350 | 350 | 350 |
| CO RINGBACK TONE | 400 | 200 | 400 | 2000 |
| CO DIAL TONE | CONTINUOUS | | | |

## ACTION

## DISPLAY

1. Press Transfer button and enter 506.
   Display shows:

```
BUSY TONE
INTERRUPT TONE
```

2. Dial tone number from above list (00-13, e.g., 09)
   OR
   Press Volume button to select tone, press Left Soft button and advance to step 3.

```
TRANSFER TONE
INTERRUPT TONE
```

3. Dial tone option 0 for CONTINUOUS or 1 for INTERRUPT.
   OR
   Press Volume button to select tone control and press Right Soft button to advance step 4.
   OR
   Press Left Soft button to return to step 2.

```
TRANSFER TONE
INTERRUPT TONE
```

4. Dial new value for interrupt times.
   (must be four digits)
   Press Right Soft button advances cursor and press Left Soft button retreats cursor.
   If valid entry, system returns to step 2.

```
TRANSFER TONE:0100
9900 0100 9900
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [507] ASSIGN RING PLAN TIME

Use this MMC to program Ring Plans time settings. Ring Plans provide six separate ringing destinations based on day of the week and time of day. The start time within a plan is the time the system will switch from one ringing destination to the next. The end time is the time the system will switch from that plan to the previous plan.

An RPO (Ring Plan Override) button is not needed as the system will switch automatically; however, it is helpful to have a dedicated button so the status can be manually changed if needed. If a ring plan has no time entry the ring plan defaults to ring plan 1. The ring plans correlate with all MMCs that program ring or termination destinations and station and trunk COS.

The following example may be useful when assigning ring plan times:

| RING PLAN | Start Time | End Time |
|---|---|---|
| (MON: 1) | ST: 0000 | END: 23:59 |
| (MON: 2) | ST: 0800 | END: 2200 |
| (MON: 3) | ST: 1000 | END: 2000 |
| (MON: 4) | ST: 1200 | END: 1800 |
| (MON: 5) | ST: 1300 | END: 1600 |
| (MON: 6) | ST: 1400 | END: 1500 |

Using a 24-hour clock in the example above, notice that the END time is within the same 24-hour period as the START time. The system will stay in the last active Ring Plan from the previous day until the end time which is 23:59. Monday starts Ring Plan 1 at 00:00. The system will stay in Ring Plan 1 until Ring Plan 2 starts (08:00) and will stay in Ring Plan 2 until Ring Plan 3 starts (10:00), and so on. As each ring Plan start it will override the previous Ring Plan.

If a Ring Plan expires and there are no additional Ring Plans set, the system will default to the Ring Plan with a time that extends past the expired Ring Plan time.

## CONDITIONS

- When using a Samsung built-in Voice Mail module that only has day/night mode, the day/night must be set for each RING PLAN in MMC 758, VM DAY/NIGHT.
- Ring Plans must be programmed in sequence (RP 1, 2, 3, 4, etc.) A Ring Plan cannot be omitted (i.e. you cannot program RP 1, 2, 5, etc.)
- A higher numbered Ring Plan cannot have a START time which begins before a lower numbered Ring Plan


NOTE

Ring Plan 1 is the default Ring Plan for each day. If no Ring Plan destination is entered, the operator group is the default destination.

## DEFAULT DATA

START: NONE
END: NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 507.<br>Display shows: | RING PLAN (SUN:1)<br>ST: END: |
| 2. Dial day number (0-6, e.g., 3 for Weds)<br>OR<br>Press Volume button to select day.<br>Press Right Soft button to advance cursor to step 3. | RING PLAN (WED:1)<br>ST: END: |
| 3. Dial ring plan number (1-6, e.g., 2)<br>OR<br>Press Volume button to select day.<br>Press Right Soft button to advance cursor to step 4. | RING PLAN (WED:2)<br>ST:_ END: |
| 4. Dial start time (e.g., 1030)<br>If valid, cursor moves to end time.<br>Enter end time.<br>If valid, system returns to step 2.<br>Begin again. | RING PLAN (WED:1)<br>ST:1030 END:1800 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [508] CALL COST

Set the Call Cost attributes generated by the system during a call. This information can be displayed on the phone during a call or as an SMDR record.

| No | Display | Description |
|---|---|---|
| 0 | UNIT COST PER MP | When the system is installed to receive metering pulses on a C. O. outgoing call. It is used for generating total call cost by multiplying it by the number of pulses. Allows a maximum value of 9999. (Currency is PENCE or ECENTS depending on USE EURO option setting in MMC 210.) |
| 1 | CALL COST RATE | This generates additional call cost calculated by multiplying this rate by the original call cost. Ranges from 100 to 255. |

**CAUTION**

**Changing these values when there is a call in progress may result in an inaccurate call cost. This facility requires the Metering Pulse Detection version of the trunk module.**

## DEFAULT DATA

UNIT COST PER MP : 0200 PENCE, CALL COST RATE : 100 PERCENT

## ACTION

1. Press Transfer button and enter 508.
   Display shows:

   DISPLAY:
   ```
   UNIT COST PER MP
   0200 PENCE →
   ```

2. Dial 0 or 1
   OR
   Press Volume button to select and press Right Soft button to move cursor.

   DISPLAY:
   ```
   CALL COST RATE
   100 % →
   ```

3. Enter new value (e.g. 110)
   System returns to step 2.

   DISPLAY:
   ```
   CALL COST RATE
   110 % →
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 110 STATION ON/OFF (CALL COST OPTION)

# [510] SLI RING CADENCE

Provides the ability to customize the ring cadence for single line ports on a system-wide basis. There are five cadences available.

**Please call Technical Support before changing any cadences as some peripheral systems may require default settings.**

| No | Item | Description |
|---|---|---|
| 1 | STN RING | This is the cadence intercom calls will ring at. |
| 2 | TRK RING | This is the cadence trunk calls will ring at. |
| 3 | DOOR RING | This is the cadence door phone calls will ring at. |
| 4 | ALM RING | This is the cadence alarm reminder calls will ring at. |
| 5 | CBK RING | This is the cadence callbacks will ring at. |

## DEFAULT DATA

(unit: milliseconds)

| Item | ON | OFF | ON | OFF |
|---|---|---|---|---|
| STN RING | 1000 | 3000 | 1000 | 3000 |
| TRK RING | 0400 | 0200 | 0400 | 2000 |
| DOOR RING | 0400 | 0100 | 0400 | 2000 |
| ALM RING | 0400 | 0200 | 0400 | 3000 |
| CBK RING | 1000 | 4000 | 1000 | 4000 |

## ACTION

1. Press Transfer button and enter 510.
   Display shows:

   DISPLAY:
   ```
   1:STN RING :0400
   0200 0400 3000
   ```

2. Dial cadence number from above list (e.g., 3)
   OR
   Press Volume button to select
   Press Left Soft button and advance to step 3.

   DISPLAY:
   ```
   3:DOOR RING:0400
   0100 0400 2000
   ```

3. Dial new value for interrupt times.
   (must be four digits)
   Press Right Soft button to advance cursor.
   Press Left Soft button to retreat cursor.
   If valid entry, system returns to step 2.

   DISPLAY:
   ```
   3:DOOR RING:0100
   9900 0100 9900
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [511] MSG WAITING LAMP CADENCE

This MMC defines the cadence (flash rate) of single line telephone message waiting lamps on phones connected to systems with an MWSLI module. There are two choices for the MW lamp cadence: continuous and interrupted.

| No | Item | Description |
|---|---|---|
| 0 | INTERRUPTED | The MW lamp will flash at a rate determined by the timer settings. The shortest 'on' time is 100 ms and the longest 'on' time is 3000 ms. The timer is adjusted in 100 ms increments. |
| 1 | CONTINUOUS | When an MWSLI port has a message, the lamp will be lit steady. |

## CONDITIONS

Systems with MWSLI modules only.

## DEFAULT DATA

INTERRUPT LED: 1000MS-ON 1000MS-OFF

## ACTION

1. Press Transfer button and enter 511.
   Display shows:

   DISPLAY:
   ```
   MW LAMP CADENCE
   INTERRUPT LED
   ```

2. Press 0 or 1 to select CADENCE.
   OR
   Press Volume button to make selection.
   Press Right Soft button to advance step 3.

   DISPLAY:
   ```
   MW LAMP CADENCE
   INTERRUPT LED
   ```

3. Dial new values for interrupt times (four digits)

   Press Right Soft button to move cursor back.
   If valid entry, system returns to step 2.
   Press Left Soft button to move cursor back.
   If valid entry, system returns to step 2.

   DISPLAY:
   ```
   MW LAMP CADENCE
   2000 2000
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [512] HOLIDAY ASSIGNMENT

This MMC defines up to 60 holiday dates throughout the year. The system will override the normal ring plan for these days and remain in the ring plan associated with the holiday. Dates are entered in a month-day format: for example, July 4th would be 0704. One ring plan applies to all holidays.

## DEFAULT DATA

NO HOLIDAY ASSIGNED
FOLLOWS RING PLAN 1

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 512.<br>Display shows the Ring Plan: | RING PLAN<br>FOLLOW 1 |
| 2. Press Right Soft button advance cursor.<br>Press Volume button to select a Ring Plan.<br>OR<br>Use the dial keypad to select a Ring Plan.(e.g., 2) | RING PLAN<br>FOLLOW 2 |
| 3. Press Right Soft button to enter and advance cursor. | RING PLAN<br>FOLLOW 2 |
| 4. Press Volume button to scroll to assign Holiday and press Right Soft button to advance cursor | ASSIGN HOLIDAY<br>01: |
| 5. Press Volume button to select entry and press Right Soft button enter and advance cursor | ASSIGN HOLIDAY<br>05: |
| 6. Dial date for holiday using the dial keypad (e.g., 0704) | ASSIGN HOLIDAY<br>05:0704 |
| 7. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 507 ASSIGN RING PLAN TIME

# [513] HOTEL TIMER

This MMC is where the Hotel timers for guest-rooms are set. These are system-wide timers that affect all rooms. Refer to your Hotel documentation for more details.

| No | Item | Description |
|---|---|---|
| 0 | CHECK OUT TIME | If a room is occupied after the checkout time, an additional day's room charge will be automatically added to the room bill. (If a room is flagged as Occupied and HOLD then the additional day's room charge will not be added. Setting a room status to HOLD allows a late checkout to be performed.) |
| 1 | ROOM CLEAN TIME | This is the time each day that the system will flag all occupied rooms as NEEDS CLEANING. |
| 2 | CHECK IN END TM | This is used to decide if an additional day's room charge will be automatically added to the room bill when the first Check Out Time is reached. For example, if you set the Check In End time as 5 am, all rooms checked in before 5 am will be automatically charged an extra day at the Check Out Time (which might be, say, 11 am). Rooms checked in after 5 am will not be charged extra until the next day, if still occupied at the Check Out Time. |

## CONDITIONS

This function can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 513.
   Display shows:

   DISPLAY:
   ```
   CHECK OUT TIME
   HH:MM :   :
   ```

2. Select the timer using the Volume buttons.

   DISPLAY:
   ```
   ROOM CLEAN TIME
   HH:MM :   :
   ```

3. Enter new time using 24-hour clock format
   system returns to step 2.

   DISPLAY:
   ```
   ROOM CLEAN TIME
   HH:MM : 11:30
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [514] TONE SOURCE

This program can assign an external tone source (e.g. a music source) instead of the normal system tone (TONE) for certain calls. The tones that can be changed are:

| No | Type |
|---|---|
| 0 | BUSY TONE |
| 1 | DIAL TONE |
| 2 | DND TONE |
| 3 | TRANSFER TONE |
| 4 | MSG WAIT TONE |
| 5 | ERROR TONE |
| 6 | RINGBACK TONE |

## DEFAULT DATA

TONE

## ACTION

## DISPLAY

1. Press Transfer button and enter 514.
   Display shows:

```
BUSY TONE
TONE
```

2. Enter the tone number 0-6 (e.g. 1)
   OR
   Press Volume button to select tone number and press Right Soft button to move cursor.

```
DIAL TONE
TONE
```

3. Dial a number for external tone source (e.g. 3762)
   OR
   Press Volume button to select tone number and press Right Soft button to store.

```
DIAL TONE
3762
```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [515] DAYLIGHT ASSIGNMENT

Defines up to 10 summertime periods. The system time will automatically increase by an hour at 2 a.m. on the assigned Start date and will automatically decrease by an hour at 3 a.m. on the assigned End date.

Dates are entered as follows:

| | |
|---|---|
| NO= | entry number 01–10 |
| YY= | year (last 2 digits, e.g. 06 for 2006) |
| START = | start date (MMDD, e.g. 0801 is 1st August) |
| END = | end date (MMDD, e.g. 0910 is 10th September) |

For example, the entry might be:

```
NO : YY  : START : END
01  : 05  : 3103  : 2710
```

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 515.
   Display shows:

   ```
   NO : YY : START : END
   01 :    :       :
   ```

2. Dial 01–10 to select entry number (e.g. 01)
   OR
   Press Volume button to select and press Right Soft button to move cursor.

   ```
   NO : YY : START : END
   01 :_    :       :
   ```

3. Enter dates as described above.

   ```
   NO : YY : START : END
   01 : 05 :  3103  : 2710
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 505 | ASSIGN DATE AND TIME |
| MMC 861 | SYSTEM OPTIONS (AUTO UPDATE TIME) |

# [600] ASSIGN OPERATOR GROUP

Used to assign an operator group for each ring plan.

## DEFAULT DATA

RING PLAN 1-6: 500

## ACTION

1. Press Transfer button and enter 600.
   Display shows:

2. Dial the ring plan number (1~6)
   OR
   Press Right Soft button to advance the cursor.

3. Dial the group number.
   OR
   Press Volume button to select group and press Right Soft button.

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## DISPLAY

```
OPERATOR GROUP
1:500   2:500
```

```
OPERATOR GROUP
1:500   2:500
```

```
OPERATOR GROUP
1:501   2:500
```

## RELATED ITEMS

MMC 601 ASSIGN STATION GROUP

# [601] ASSIGN STATION GROUP

This MMC is used to build all station groups. There are 80 programmable groups available.

The options for setting up these groups are as follows:

| No | Option | Description |
|---|---|---|
| 0 | TYPE | This is the type of group you are creating and can be one of the following:<br>0 NORMAL: Used to assign stations in a ring group. The members can be stations, common bell contacts or Ring over Page relays.<br>1 VMAA: Used to group a number of voice mail port extensions. These must have been defined in MMC 207 as VMAA ports or they cannot be entered here. Check all programming in MMC 726 to ensure that the In band DTMF codes are properly set.<br>2 UCD: Used to build a UCD group. The system will support two methods of UCD:<br>*TYPE 1 UCD*<br>The group OVERFLOW/N-ANS destination(see below) is defined as an SLT port to which you must connect some type of announcement device to play to callers while they are on hold.<br>Please note that this type of UCD group has the following limitations.<br>a) The announcement device must be able to terminate the announcement with a hook-flash and a transfer back to the UCD group.<br>b) Only one caller at a time can hear the announcement.<br>c) Each caller connected to the announcement must hear the announcement in its entirety.<br>d) It is possible that a new caller may 'jump ahead' in the queue if a previous caller is currently connected to the announcement device.<br>*TYPE 2 UCD*<br>The group OVERFLOW/N-ANS destination (see below) is defined as a VMS UCD group on an installed SVMi-20E module.<br>The digital announcer in the SVMi-20E module supplies two recorded announcements to callers in a queue. The first announcement is played only once, the second announcement will repeat for as long as the caller is in queue.<br>This type of UCD group has the following advantages:<br>a) No external device need be installed to provide an announcement.<br>b) Multiple callers can hear the announcement(s) simultaneously.<br>c) Callers hearing the announcement will be transferred to a free UCD group member(agent) as soon as the agent becomes available. |

| No | Option | Description |
|---|---|---|
| 0 | TYPE (contd) | d) The callers place in queue is always maintained. Additional programming for this type of UCD group is in MMC 607. There is a maximum of 20 UCD groups available on a system due to availability of system resources.<br>3 AA: This is used to group a number of AA ports. An Auto Attendant (AA) module must be installed in the system to do this.<br>4 BI-VMS: This is the voice mail group for the Built-In Voice Mail module.<br>5 MESSAGE: Used to group a number of extensions to serve as a message desk or message group. When one of the stations in this type of group leaves a message to another station the messaged station will return the message to the message group so any member can answer the call. If a station is a member of more than one message group, then any message indications made by that station would be for the first numerical message group they are a member of. It is not recommended to program stations in to multiple station groups.<br>6 S0 STN GRP: This is used to group a number of S0 stations for a video conference.<br>7. VMSUCD GRP: This is used to collect UCD queuing prompts from the SVMi-20. The group members will be the VM ports. |
| 1 | RING MODE | Each group can have one of the following ring modes. This will decide how calls are placed to the group.<br>0 SEQUENTIAL: The stations listed as 'members' (see below) will be called on a 'first available' basis. Calls will first go to the first member; if the first member is busy, calls will go to the second member; if the second member is busy, calls will go to the third member, and so on. This type of group is useful for placing the bulk of the incoming calls with a selected individual, and other members only getting the calls when that member is busy. The number of members allowed for a sequential group is 48.<br>1 DISTRIBUTED: The first call will go to the first member, the second call will go to the second member, the third call will go to the third member. This type of group is useful for evenly distributing the call among all group members. The number of members allowed for a distributed group is 48.<br>2 UNCONDITIONAL: Calls are placed to all group members simultaneously.<br>This reduces the number of members of the groups to 32. If a group member is busy, they can receive off-hook ring if defined in MMC 300. This ring mode option is not available for UCD or VMAA groups. The SGR INC BUSY option is not available for unconditional ring mode. |

| No | Option | Description |
|---|---|---|
| 2 | OVERFLOW | This is the timer value that will cause unanswered calls to a group to begin also ringing the NEXT PORT (see below) after this timer has elapsed. If set to 000, no overflow will take place. |
| 3 | GROUP TRANSFER | This is a timer that will determine how long Trunk Line calls transferred to the group will ring at the group before recalling. If set to 000, no recall will take place. |
| 4 | NEXT PORT | This is the station or group number that callers will also ring at if the OVER-FLOW feature has been programmed. The OVERFLOW DESTINATION can be defined as:<br>1 COMMON BELL There is a common bell port on each MIS module.<br>2 RING OVER PAGE The ROP port can be defined as the NEXT port.<br>3 STATION OR STATION GROUP. Any station or station group can be defined as the NEXT port. |
| 5 | MEMBER | List all members that are to be in the group. Up to 48 members for the system are allowed in each group, but stations can be assigned to mul-tiple station groups |
| 6 | NEXT HUNT | The length of time a call will ring at a station before it hunts to the next group member. |
| 7 | GROUP BUSY | When this option is set to ON, a busy signal will be sent to the caller if all group members are busy. When this option is set to OFF, the ring back tone is sent to the caller even if all group members are busy. UCD is an exception to this rule. This option only works when MMC 210 SGR INC BUSY is set to OFF. When MMC 210 SGR INC BUSY is set to ON, all station groups will follow this setting. |
| 8 | GROUP AUTO ANS | If set ON, stations will Auto Answer calls to the group (when ring type is DISTRIBUTED or SEQUENTIAL). |
| 9 | ALL OUT NEXT | If set ON, will go to the next port without waiting for the overflow timer if all members of the group are logged out. |


NOTE

Calls to a group do not follow the call forwarding instructions of any station in the group.

## CONDITIONS

- A station can be assigned to all station groups. A station group can normally accommodate up to 99 members, but only up to 32 members if the RING MODE is UNCONDITIONAL.
- To enable off-hook ring for incoming calls to busy members, set OFFHOOK RING in MMC 300, CUSTOMER ON/OFF PER STATION, to ON. Even in this case, however, the off-hook ring is enabled only when the RING MODE is UNCONDITIONAL.

## DEFAULT DATA

NORMAL GROUP

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 601.<br>Display shows: | [501] STN.GROUP<br>TYPE:NORMAL GRP |
| 2. Dial group number (e.g., 505)<br>OR<br>Press Volume button to select group and<br>Press Right Soft button to move cursor. | [505] STN.GROUP<br>TYPE:NORMAL GRP |
| 3. Dial feature option number (0-7, e.g., 0)<br>OR<br>Press Volume button to scroll options and press Right Soft button to move cursor. | [505] STN GROUP<br>TYPE:VMAA GROUP |
| 4. DIAL group type (e.g., 1)<br>OR<br>Press Volume button to make selection and<br>press Left Soft button to move cursor to TYPE. | [505] STN GROUP<br>TYPE:VMAA GROUP |
| 5. Dial feature option number (0-6, e.g., 1)<br>OR<br>Press Volume button to scroll options and<br>press Right Soft button to move cursor. | [505] STN GROUP<br>RING:DISTRIBUTE |
| 6. Dial ring option (0-2, e.g., 0)<br>OR<br>Press Volume button to make selection.<br>Press Left Soft button to move cursor<br>back to RING or press Right Soft button to<br>return to step 2. | [505] STN GROUP<br>RING:SEQUENTIAL |

7. Dial next feature option and continue.
   OR
   Press Volume button to select option and press Right Soft button.
   OR
   Press Left Soft button to return to step 2.

```
[505] STN GROUP
RING:SEQUENTIAL
```

8. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 203 | ASSIGN UA DEVICE |
| MMC 204 | COMMON BELL CONTROL |

# [602] STATION GROUP NAME

Allows the system administrator or technician to enter a name up to 11 characters to identify an individual station group.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 602.<br>Display shows: | [500] SGR NAME |
| 2. Dial group number (e.g., 505)<br>OR<br>Press Volume button to make selection and press Left or Right Soft button to move cursor. | [505] SGR NAME |
| 3. Enter name. | [505] SGR NAME<br>TELECOMS |
| 4. Press Left or Right Soft button to return to step 2.<br>OR<br>Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 104 | STATION NAME |
| MMC 404 | TRUNK NAME |
| MMC 601 | ASSIGN STATION GROUP |

# [603] ASSIGN TRUNK GROUP

Allows the assignment of trunks to a specific trunk group or to several trunk groups. This is useful in the programming of LCR when more than one trunk is to be in several dialling plans. There are two different modes of operation: (1) sequential and (2) distribute. There are 30 programmable trunk groups with up to 99 members per group.


NOTE

One trunk can appear in more than one trunk group. If necessary, delete the trunk member from other groups to prevent accidental access.

## DEFAULT DATA

ALL LOOP/ISDN TRUNKS: 9
ALL TIE TRUNKS: 801
ALL VOIP NETWORKING TRUNKS: 803
ALL VOIP H.323 TRUNKS: 804
ALL VOIP SIP TRUNKS: 805

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 603.<br>Display shows: | [9] TRK GROUP<br>MODE:SEQUENTIAL |
| 2. Enter valid trunk group (e.g., 9)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | [9] TRK GROUP<br>MODE:SEQUENTIAL |
| 3. Press Right Soft button to change mode.<br>OR<br>Press Volume button to change mode to member. | [9] TRK GROUP<br>MEMBER 01:NONE |
| 4. Press Right Soft button to move cursor to number of member and enter valid member number (e.g., 05) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [9] TRK GROUP<br>MEMBER 05:NONE |

5. Enter valid trunk number (e.g., 729)
   OR
   Press Volume button to make selection and press Right Soft button to return to step 2.

```
[9]  TRK GROUP
MEMBER 01:729
```

6. Repeat steps 1-5 to remove trunk from group 9 if necessary.

7. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

### LCR PROGRAMMING

| | |
|---|---|
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 712 | LCR ROUTE TABLE |
| MMC 713 | LCR MODIFY DIGIT TABLE |

### VoIP PROGRAMMING

| | |
|---|---|
| MMC 832 | VoIP ACCESS CODE |
| MMC 833 | VoIP IP TABLE |

# [604] ASSIGN STATION TO PAGE ZONE

Allows the technician to assign a phone to any of the five internal paging zones. Each page zone can have up to 99 members. A phone may be assigned to more than one zone. Page zone (*) will page all external page zones as well as all phones that are members of page zone 0.

## DEFAULT DATA

NO STATIONS ASSIGNED

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 604.<br>Display shows: | INT.PAGE ZONE(0)<br>MEMBER 01:NONE |
| 2. Enter the page zone number (0-4, e.g., 3)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | INT.PAGE ZONE(3)<br>MEMBER 01:NONE |
| 3. Enter index number (e.g., 05) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | INT.PAGE ZONE(3)<br>MEMBER 05:NONE |
| 4. Enter station number (e.g., 205) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | INT.PAGE ZONE(3)<br>MEMBER 05:205 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [605] ASSIGN EXTERNAL PAGE ZONE

Determines which relays will close when one of the four external page zones is accessed.


NOTE

The OfficeServ 7400 system must be equipped with an MIS module to allow external paging.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 605.<br>Display shows first page zone: | EXT. PAGE ZONE(5)<br>MEMBER 1 :NONE |
| 2. Dial page zone number (e.g., 6)<br>OR<br>Use Volume button to select desired page zone numbers and press Right Soft button to move the cursor. | EXT. PAGE ZONE(6)<br>MEMBER 1 :NONE |
| 3. Dial member number (e.g., 3)<br>OR<br>Use Volume button to select member numbers and press Right Soft button to move the cursor.<br>OR<br>Press Left Soft button to return to step 2. | EXT. PAGE ZONE(6)<br>MEMBER 3 :NONE |
| 4. Dial relay number via dial keypad (e.g., 3751) and press Right Soft button to return to step 2.<br>OR<br>Press Left Soft button to return to step 3 above. | EXT. PAGE ZONE(6)<br>MEMBER 3 :3751 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [606] ASSIGN SPEED BLOCK

Provides a means of adding or deleting speed dial blocks to the system or an individual phone. With the ability to delete a block or blocks of speed dial, it will not be necessary to waste these on such items as voice mail, DPIMs or stations that do not require the ability to use speed dial. The Free List will show how many bins are left to be assigned.

A library of up to 2500 speed dial numbers may be allocated as needed. The system list can have up to 500 numbers (or 950 numbers if set in MMC 861 SYSTEM OPTIONS) and each station can have up to 50 numbers. Speed dial numbers are assigned in blocks of 10. Each speed number may contain up to 24 digits.

## DEFAULT DATA

SYSTEM: 200 ENTRIES
STATIONS: 1 BLOCK ASSIGNED

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 606.<br>Display shows: | FREE LIST:20<br>SYSTEM:20 |
| 2. Press Right Soft button to advance to next line.<br>OR | FREE LIST:20<br>SYSTEM:20 |
| You can view BUSY LIST using Volume button. | BUSY LIST:180<br>SYSTEM:20 |
| 3. Make a selection of SYSTEM or EXT using Volume button and press Right Soft button to advance cursor. | FREE LIST:20<br>EXT201:1 |
| 4. Enter desired extension number via dial keypad. (e.g., 205)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | FREE LIST:20<br>EXT205:1 |

5. Enter valid number for bins.
   (e.g., 0-5 for EXT or 00-50 for SYSTEM)
   OR
   Press Volume button to make selection.
   OR
   Press Hold button to delete bin(s).

```
FREE LIST:20
EXT205:5
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 105 | STATION SPEED DIAL |
| MMC 106 | STATION SPEED DIAL NAME |
| MMC 705 | ASSIGN SYSTEM SPEED DIAL |
| MMC 706 | SYSTEM SPEED DIAL BY NAME |

# [607] UCD OPTIONS

Sets up UCD options when an AA module has been installed. MMC 601 must have already been used to define a UCD group with an overflow destination of an AA port or group. (A group is preferred over a port because a group allows multiple paths into the AA module and therefore has greater traffic handling capabilities.) When the group overflow timer in MMC 601 expires, the caller will be routed to the AA module. It is here that the caller is played the UCD 'FIRST MESSAGE' and 'SECOND MESSAGE' while in queue. This will continue until an agent becomes free or the caller is transferred to a final destination.

The following program options apply:

| No | Option | Description |
|---|---|---|
| 00 | FIRST MESSAGE | After the caller has overflowed from the UCD group, the first message will immediately play.<br>This message will only be played once for the caller. |
| 01 | SECOND MESSAGE | If no agent has become free after the UCD recall time(see UCD Recall Time), the caller will be played the second message.<br>This message will be repeated for as long as the caller is in queue, at an interval specified in the UCD Recall timer below. |
| 02 | EXIT CODE | While the caller is hearing a message (but not during MOH), the caller may dial the DTMF digit specified here and be transferred immediately to the final destination (see Final Destination). The exit code is optional and does not need to be used. If used, the first and second messages may be modified to provide instructions on its use. |
| 03 | RETRY COUNT | The UCD program is designed to route a caller to a 'final destination' after a programmable number of 'loops' through the UCD message. The range of this counter is 0 to 99. 00 means that there is no retry counter and the caller will remain in the UCD queue until answered. Any non zero value will route a caller through the UCD loop that many times before going to the final destination. The UCD will route calls to the final destination immediately if all members of the group are either out of group or in DND.<br>Example: If this counter is set to 02, callers reaching a busy group will hear the first UCD message, be placed on hold, hear the second UCD message, be placed on hold, and finally hear the second message again before being transferred to the final destination. |

| No | Option | Description |
|---|---|---|
| 04 | FINAL DESTINATION | This is the final destination for the caller if not answered by a UCD agent.<br>This destination is only reached if (a) the caller dials an exit digit during a message or (b) the retry count has expired. The final destination can be a station number, a group number, a disconnect or another plan. Plans are entered by pressing button 'A' plus two digits 01-12. A disconnect is entered as a destination of NONE (Hold button).<br>If the final destination is a voice mail port, the port will receive a FWD from UCD group integration message. The final destination will forward or overflow.<br>If the forward to destination is a voice mail port the port will receive FWD from UCD group integration message. If the final destination is not forwarded, the call will ring or camp on to the final destination indefinitely.<br>To ensure that you do not get a situation where all the call buttons are busy on the final destination it is advisable to make the final destination a group (even if the group has only one station in it.) |
| 05 | RING NEXT TIME | This timer must be shorter than the overflow timer in MMC 601. If a higher value is entered, the display will show invalid entry. In the case where a UCD group has the ring next timer set at 000, an unanswered call will rotate evenly among all agents until it is answered. The UCD greetings will be heard during this routing process, but can be removed by defining the UCD messages in MMC 607 as unrecorded message numbers. This will simulate a circular hunt group. |
| 06 | UCD RECALL TIME | After a caller has heard a UCD announcement, they will be placed on hold until an agent becomes available or the UCD recall timer expires. When the UCD recall timer expires, the caller will again hear the UCD announcement. The range is 00-99. The default is 10. |
| 07 | MOH SOURCE | This option determines what Music-On-Hold source callers will be connected to between messages. |
| 08 | WRAP-UP TIME | This option will make a UCD agent unavailable to receive additional UCD calls after hanging up from the last one. This is to allow agents to complete work associated with the previous call before the next call begins ringing. The range is 000-250. The default is 010. |

| No | Option | Description |
|---|---|---|
| 09 | AUTO LOG OUT | This YES/NO option determines if a station will automatically log out of the UCD group when the RING NEXT timer expires. This setting will be ignored if the RING NEXT timer is set to 000. |
| 10 | ALLOUT→FINAL | This YES/NO option determines if calls forward to the UCD final destination when all stations are logged out of the UCD group. If no UCD final destination is assigned then the call will disconnect. |
| 11 | AGENT PIN NO | This YES/NO option determines if an agent is required to enter an Agent ID when logging on to this group. The Agent ID can be entered in MMC 717. |
| 12 | GROUP BUSY NEXT | This YES/NO option determines if all agents are busy, specifies whether the next port is called immediately during overflow time. |

## DEFAULT DATA

FIRST MSG: 61
SECOND MSG: 62
EXIT CODE: NONE
RETRY COUNT: 03
FINAL DEST: 500
RING NEXT: 30 SEC
UCD RECALL: 10 SEC
MOH SOURCE: NONE
WRAP-UP: 10 SEC
AUTO LOG OUT: ON
ALL OUT TO FINAL: OFF
AGENT PIN NO: OFF
GROUP BUSY NEXT: OFF

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 607.<br>Display shows: | [530] UCD OPTION<br>FIRST MSG :61 |
| 2. Press Volume button to select UCD group or dial group number.<br>OR<br>Press Left Soft button to position cursor under message number and enter new message.<br>OR<br>Press Right Soft button and advance to next option using the Volume buttons to select an option. | [542] UCD OPTION<br>FIRST MSG :61<br>[530] UCD OPTION<br>FIRST MSG :25<br>[530] UCD GROUP<br>UCD RECALL:10 SEC |
| 3. Press Right Soft button and advance to next option.<br>Use the Volume buttons to make a selection.<br>OR<br>Make a selection using the dial keypad. | [530] UCD OPTION<br>UCD RECALL:10 SEC |
| 4. Press Left Soft button to enter the selection and to return to step 1.<br>OR<br>Press Right Soft button to return to step 3. | [530] UCD OPTION<br>EXIT CODE :NONE |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 601 ASSIGN STATION GROUP

# [608] ASSIGN REVIEW BLOCK

Provides a means of adding or deleting CID review blocks to an individual phone. With the ability to delete a block or blocks of CID review, it will not be necessary to waste these on items such as voice mail and DPIMs or phones that do not have displays. The free list will show how many bins are left to be assigned. The system has 2500 total bins. Each phone may be assigned a maximum of 50 bins.

## DEFAULT DATA

PHONES: 10 BINS

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 608.<br>Display shows first station: | [201] REVIEW BLK<br>10:0060 FREE |
| 2. Enter desired EXT number (e.g., 205)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | [205] REVW BLOCK<br>10:0060 FREE |
| 3. Enter valid number for bins (e.g., 50)<br>OR<br>Press Volume button to make selection.<br>OR<br>Press Hold button to delete bin(s). | [205] REVW BLOCK<br>50:0010 FREE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 119 | CALLER ID DISPLAY |
| MMC 312 | ALLOW CALLER ID |
| MMC 725 | SMDR OPTIONS |

# [609] CALL LOG BLOCK

Provides a means of adding or deleting Call Log blocks for an individual phone. With the ability to delete blocks it will not be necessary to waste these on items such as voice mail and DPIMs or phones that do not have displays. The free list will show how many bins are left to be assigned. The system has 2500 total bins. Each phone may be assigned a maximum of 50 bins.

## DEFAULT DATA

PHONES: 10 BINS

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 609.<br>Display shows first station: | [201] LOG BLOCK<br>10:0070 FREE |
| 2. Enter desired EXT number (e.g., 205)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | [205] LOG BLOCK<br>10:0070 FREE |
| 3. Enter valid number for bins (e.g., 50)<br>OR<br>Press Volume button to make selection.<br>OR<br>Press Hold button to delete bin(s). | [205] LOG BLOCK<br>50:0030 FREE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [611] ALLOW TEXT MESSAGING

This program allows stations to send text messages to other stations if they are busy or during an OHVA. Up to 100 stations can be allowed text messaging.

## DEFAULT DATA

- NOT USED (no text messaging allowed)
- Large LCD keysets are automatically set to USED (text messaging allowed)

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 611.<br>Display shows: | [201] TMSG STN<br>NOT USED:100 FREE |
| 2. Enter the number of a station.<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | [202] TMSG STN<br>NOT USED:100 FREE |
| 3. Specify whether text messaging will be used or not. | [202] TMSG STN<br>USED |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 117 EDIT TEXT MESSAGE

# [612] ALLOW GROUP CONFERENCE

This program allows a station to use the Group Conference call feature. Up to 100 stations can be allowed this feature. Each allowed station can have up to five pre-programmed conference groups.

## CONDITIONS

This feature is only for Large LCD phones and WIP-5000M mobile phone.

## DEFAULT DATA

Large LCD phones are automatically set to allow this feature (USED).

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 612.<br>Display shows: | [201] CONF STN<br>NOT USED:100 FREE |
| 2. Enter the number of a station.<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | [202] CONF STN<br>NOT USED :100 FREE |
| 3. Specify whether Group Conference feature can be used or not. | [205] CONF STN<br>USED |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 118 CONFERENCE GROUP

# [614] STATION/TRUNK USE GROUP

This program allows you to assign stations to station use groups and trunks to trunk use groups. This is useful if you want to restrict calling between stations, outgoing calls through a trunk lines, or call answering.

## CONDITIONS

Station use groups are numbered from 001 to 300, and trunk use groups from 301 to 500.

## DEFAULT DATA

ALL STATIONS: 001
ALL TRUNKS: 301

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 614.<br>Display shows first station: | STATION GROUP<br>201 :001 |
| 2. Enter 0 if you want to set a station group.<br>Enter 1 if user want to set a trunk group.<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | TRUNK GROUP<br>701 :301 |
| 3. Enter number of station/trunk.<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | TRUNK GROUP<br>702 :301 |
| 4. Enter the number of the use group<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | TRUNK GROUP<br>702 :302 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 304 | ASSIGN EXTENSION/TRUNK USE |
| MMC 317 | ASSIGN STATION/STATION USE |
| MMC 428 | ASSIGN TRUNK/TRUNK USE |

# [615] MGI GROUP

This program assigns designated MGI ports to specific services. This allows 'grading' of MGI modules for traffic conditions. The MGI ports can be segregated into groups. Any entries made here may be ineffective if conflicting entries exist in MMC 616.

| No | Type | Description |
|---|---|---|
| 0 | LOCAL ITP | This determines what MGI ports can be used with ITP phones across a private IP network |
| 1 | PUB IP ITP | This determines what MGI ports can be used with ITP phones on a public IP network. |
| 2 | VOIP NTWK | This determines what MGI ports can be used for enhanced proprietary Samsung VoIP networking between OfficeServ 7400 systems across a private IP network. |
| 3 | PUB IP NTWK | This determines what MGI ports can be used for enhanced proprietary Samsung VoIP networking between OfficeServ 7400 systems on a public IP network |
| 4 | VOIP TRUNK | This determines what MGI ports can be used as industry-standard H.323 or SIP VoIP trunks for communications across a private network |
| 5 | PUB IP TRK | This determines what MGI ports can be used as industry-standard H.323 or SIP VoIP trunks for communications on a public network |
| 6 | ITP PAGED | This determines what MGI ports can be used with station page to ITP phones across a private IP network |

The MGI ports have two selection modes: Sequential or Distributed. The members for each selection are the actual ports on the MGI module.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 615.<br>Display shows the first available option: | USER: LOCAL ITP<br>MODE:SEQUENTIAL |
| 2. Press Volume button to select an user type.<br>Press Right Soft button to move cursor. | USER: LOCAL ITP<br>MODE:SEQUENTIAL |
| 3. Press Volume button to select an option and press Right Soft button to move cursor. | USER: LOCAL ITP<br>MODE:SEQUENTIAL |
| 4. Press Volume button to select and press Right Soft button to store data and return to step 1. | USER: LOCAL ITP<br>MODE:SEQUENTIAL |

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [616] MGI USER

This program selects which specific MGI ports will be dedicated on a per-port basis for IP station/trunk devices. If this MMC is not used, allocation of MGI ports will be controlled by MMC 615. By defining dedicated MGI port usage, the IP station/trunk selected will always use the port programmed. MGI ports can be assigned for digital stations (2XX~2XXX), private and public ITP stations (32XX), VoIP Networking trunks (83XX), H.323 trunks (84XX), SIP trunks (85XX) and MGI facsimile. Only one assignment per MGI port is permitted. Any entries made here will override entries made in MMC 615.

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 616.
   Display shows the first available option:

   DISPLAY:
   ```
   [3801] MGI USER
   NONE
   ```

2. Enter MGI dial number.
   OR
   Press Volume button to select an MGI port and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [3801] MGI USER
   NONE
   ```

3. Enter MGI user dial number.
   OR
   Press Volume button to select an MGI user and press Right Soft button to store and move cursor.

   DISPLAY:
   ```
   [3801] MGI USER
   NONE
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [700] COPY COS CONTENTS

This MMC allows the technician to duplicate classes of service.

## DEFAULT DATA

NONE

## PROGRAM BUTTONS

| | |
|---|---|
| 'F' KEY | Used to advance to MMC 701 |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 700.<br>Display shows: | COPY COS ITEMS<br>COS01→COS01 |
| 2. Dial selected COS to copy (e.g., 05)<br>OR<br>Press Volume button to select COS and press.<br>Right Soft button to move cursor and advance to next step. | COPY COS ITEMS<br>COS05→COS01 |
| 3. Dial target COS (e.g., 06)<br>OR<br>Press Volume button to select COS and press<br>Right Soft button to move cursor back to step 2. | COPY COS ITEMS<br>COS05→COS06 |
| 4. Press F key to advance MMC 701 and press Right Soft to advance cursor. | COS CONTENTS(06)<br>TOLL LEVEL:A |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 701 | ASSIGN COS CONTENTS |

# [701] ASSIGN COS CONTENTS

Similar to MMC 700 but does not allow a copy command. This MMC is primarily used for creating a new class of service (COS). A maximum of 30 classes of service are allowed.

NOTE: If the 'unsupervised conference' feature is enabled, a programmed CONF key must be available on phones to allow re-entry into a conference call.

This MMC is divided into five categories.

| No | Category | Description | | | |
|---|---|---|---|---|---|
| 0 | TOLL LEVEL | TOLL | LEVEL | | |
| | | 0 | A | Follow toll class A (Unrestricted) | |
| | | 1 | B | Follow toll class B in MMC 702, 703 | |
| | | 2 | C | Follow toll class C in MMC 702, 703 | |
| | | 3 | D | Follow toll class D in MMC 702, 703 | |
| | | 4 | E | Follow toll class E in MMC 702, 703 | |
| | | 5 | F | Follow toll class F in MMC 702, 703 | |
| | | 6 | G | Follow toll class G in MMC 702, 703 | |
| | | 7 | H | Follow toll class H (All restricted) | |
| 1 | USABLE FEATURE | No | COS | Default | Description |
| | | 00 | AA CALER | YES | Auto answer control by caller |
| | | 01 | ABSENCE | YES | Absence |
| | | 02 | ALM CLR | YES | Alarm Clear |
| | | 03 | AUTO RDL | YES | Retry on busy |
| | | 04 | CALLBACK | YES | Callback |
| | | 05 | CLIP ABN | YES | Caller ID Abandon |
| | | 06 | CLIP INQ | YES | Caller ID Inquire |
| | | 07 | CLIP INV | YES | Caller ID Investigate |
| | | 08 | CONFER. | YES | Conference |
| | | 09 | DALM CLR | YES | DISA alarm ring clear |
| | | 10 | DIRECT. | YES | Directory dial |
| | | 11 | DISA | YES | Allow DISA use |
| | | 12 | DND | YES | Do Not Disturb |
| | | 13 | DND FWRD | YES | Forward Do Not Disturb |
| | | 14 | DND OVRD | NO | Do Not Disturb Override |
| | | 15 | DOOR | YES | Door ring answer |
| | | 16 | DSS | YES | Direct station select |
| | | 17 | DTS | YES | Direct trunk select |
| | | 18 | EXT AREC | NO | Intercom call automatic record (SVM-800) |
| | | 19 | ICM EXT FWD | YES | External call forward |

| No | Category | Description | | | |
|---|---|---|---|---|---|
| 1 | USABLE FEATURE | No | COS | Default | Description |
| | | 20 | FEATURE | YES | Transfer button |
| | | 21 | FLASH | YES | Trunk flash |
| | | 22 | FOLLOW-ME | YES | Call forward-follow me |
| | | 23 | FORWARD | YES | Call forwarding |
| | | 24 | FWDTOVMS | YES | Call forward to SVM-800 |
| | | 25 | GRP I/O | YES | Group in/out |
| | | 26 | HOLD | YES | Hold |
| | | 27 | HOTLINE | YES | Hot line and Off-hook selection |
| | | 28 | INTERCOM | YES | Intercom call |
| | | 30 | MESSAGE | YES | Message |
| | | 31 | MM PAGE | YES | Meet me page |
| | | 32 | NEW CALL | YES | New call |
| | | 33 | OHVAED | YES | Receive Off-hook voice announcement |
| | | 34 | OHVAING | YES | Make Off-hook voice announcement |
| | | 35 | ONEA2 | YES | 1A2 emulation |
| | | 36 | OPERATOR | YES | Call to Operator |
| | | 37 | OUT TRSF | YES | Outgoing transfer |
| | | 38 | OVERRIDE | NO | Barge-In |
| | | 39 | PAGE 0 | YES | Page zone 0 Paging |
| | | 40 | PAGE 1 | YES | Page zone 1 Paging |
| | | 41 | PAGE 2 | YES | Page zone 2 Paging |
| | | 42 | PAGE 3 | YES | Page zone 3 Paging |
| | | 43 | PAGE 4 | YES | Page zone 4 Paging |
| | | 44 | PAGE 5 | YES | Page zone 5 Paging |
| | | 45 | PAGE 6 | YES | Page zone 6 Paging |
| | | 46 | PAGE 7 | YES | Page zone 7 Paging |
| | | 47 | PAGE 8 | YES | Page zone 8 Paging |
| | | 48 | PAGE 9 | YES | Page zone 9 Paging |
| | | 49 | PAGE * | YES | Page zone * Paging |
| | | 51 | PICKUP | YES | Call pickup |
| | | 52 | PRB | YES | Privacy Release and Bridge |

| No | Category | Description | | | |
|---|---|---|---|---|---|
| 1 | USABLE FEATURE | No | COS | Default | Description |
| | | 53 | REM. HOLD | YES | Remote Hold |
| | | 54 | RNG PLAN | YES | Ring Mode Change |
| | | 55 | SECURE | YES | Barge-In secure |
| | | 56 | SET RLOC | NO | Set Relocation |
| | | 57 | SSPD TOL | YES | System Speed dial toll check |
| | | 58 | STN LOCK | YES | Station Lock |
| | | 59 | SYS SPD | YES | System Speed dial |
| | | 60 | TRK AREC | NO | Trunk call automatic record (SVM-800) |
| | | 61 | TRK EHLD | YES | Trunk call exclusive hold |
| | | 62 | UNCO CNF | YES | Unsupervised Conference |
| | | 63 | VM AREC | NO | Auto Record (SVMi) |
| | | 64 | VM AME | NO | Answer Machine Emulation (SVMi) |
| | | 65 | VM REC | NO | Call Record (SVMi) |
| | | 66 | VMS PSWD | NO | VMS password (SVM-800) |
| | | 67 | VMS REC | NO | VMS Call Record (SVM-800) |
| 2 | CALL STATION GROUP | STN GROUP 01-80 | | YES | Station group 01~80 calling |
| 3 | CALL TRUNK GROUP | TRK GROUP 01-30 | | YES | Trunk group 01~30 calling |
| 4 | CALL TO BIVMS STN (SVMi). | BIVMS STN 01-16 | | YES | SVMi port 01~16 calling |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 701.<br>Display shows: | COS CONTENTS(01)<br>TOLL LEVEL:A |
| 2. Dial COS (e.g., 06)<br>OR<br>Press Volume button to select COS number and press Right Soft button to move cursor. | COS CONTENTS(06)<br>TOLL LEVEL:A |
| 3. Dial COS contents categories.<br>(e.g., 1 for Usable Features)<br>OR<br>Press Volume button to select COS categories and press Right Soft button to move cursor. | COS CONTENTS(06)<br>00:AA CALER :YES |
| 4. Dial COS usable feature option (e.g., 12)<br>OR<br>Press Volume button to select option and press Right Soft button to move cursor. | COS CONTENTS(06)<br>12:DND :YES |
| 5. Dial 0 for NO or 1 for YES.<br>OR<br>Press Volume button to select option and press Right Soft button to return to step 4. | COS CONTENTS(06)<br>12:DND :NO |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 700 COPY COS CONTENTS

# [702] TOLL DENY TABLE

Provides a way to make toll restriction (call barring) very easy and flexible. There are 500 entries allowed in the deny table and each entry index can be assigned to a class of service. Each index can have up to 12 digits. With the use of wild cards (MMC 704, Assign Wild Character), more flexibility can be built into toll restriction. Wild cards can be used repeatedly in the dial string, limited only to what is allowed or denied in MMC 704.

Six toll levels, B to G, are programmable. Toll level A is set as 'unrestricted' by default and toll level H is set as 'in-house only' by default.

## DEFAULT DATA

ALL ENTRIES ARE SET TO 0

## PROGRAM BUTTONS

| | |
|---|---|
| A | Used to enter wild card X |
| B | Used to enter wild card Y |
| C | Used to enter wild card Z |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 702.<br>Display shows: | DENY(001):BCDEFG<br>:000000 |
| 2. Dial index number (e.g., 005)<br>OR<br>Press Volume button to select index and press Right Soft button to move cursor. | DENY(005):BCDEFG<br>:000000 |
| 3. Enter toll pattern via dial keypad (e.g., 212)<br><br>OR<br>Enter wild card (e.g., 21X) and press Right Soft button to move cursor to COS options. | DENY(005):BCDEFG<br>212 :000000<br><br>DENY(005):BCDEFG<br>21X :000000 |
| 4. Press Volume button to move cursor along line until under toll class mark.(e.g., E).<br>Enter a 1 for "Yes" or 0 for "No".<br>Press Right Soft button to store and return to step 1<br>OR<br>Press Left Soft button to return to step 2. | DENY(001):BCDEFG<br>212 :000100 |

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 703 | TOLL ALLOWANCE TABLE |
| MMC 704 | ASSIGN WILD CHARACTER |

# [703] TOLL ALLOWANCE TABLE

Provides a way to make toll restriction very easy and flexible. There are 500 allowable entries in the allow table and each entry index can be assigned to a class of service. Each index can have up to 12 digits. With the use of wild cards (MMC 704, Assign Wild Character), more flexibility can be built into toll restriction. Six toll levels, B to G, are programmable. Toll level A is set as 'unrestricted' by default, and toll level H is set as 'in-house only' by default.

## DEFAULT DATA

ALL ENTRIES ARE SET TO 0

## PROGRAM BUTTONS

| | |
|---|---|
| A | Used to enter wild card X |
| B | Used to enter wild card Y |
| C | Used to enter wild card Z |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 702.<br>Display shows: | ALOW(001):BCDEFG<br>:000000 |
| 2. Dial index number (e.g., 005)<br>OR<br>Press Volume button to select index and press Right Soft button to move cursor. | ALOW(005):BCDEFG<br>:000000 |
| 3. Enter toll pattern via dial pad.(e.g., 202)<br><br>OR<br>Enter wild card (e.g., 20X) and press Right Soft button to move cursor to COS options. | ALOW(005):BCDEFG<br>202 :000000<br><br>ALOW(005):BCDEFG<br>20X :000000 |
| 4. Press Volume button to move cursor along line until under toll class mark.(e.g., E).<br>Enter a 1 for "Yes" or 0 for "No".<br>Press Right Soft button to store and return to step 1.<br>OR<br>Press Left Soft button to return to step 2. | ALOW(001):BCDEFG<br>202 :000100 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 702 | TOLL DENY TABLE |
| MMC 704 | ASSIGN WILD CHARACTER |

# [704] ASSIGN WILD CHARACTER

Provides flexibility to toll restriction (call barring) when a specific numbering plan is desired. There are only three entry tables but more than one digit can be assigned per table if needed.

## DEFAULT DATA

X ENTRIES SET TO 1
Y AND Z ENTRIES SET TO 0

## ACTION

1. Press Transfer button and enter 704.
   Display shows:

   ```
    :0123456789*#
   X:111111111111
   ```

2. Press Volume button to select X, Y, or Z (e.g., Z) and press Right Soft button to advance cursor to option line.

   ```
    :0123456789*#
   Z:000000000000
   ```

3. Press Volume button to move cursor to option digit desired (e.g., 5) and enter 1 (put under other digits as required)
   Press Left Soft button to return to step 2.
   OR
   Press Right Soft button to return to step 1.

   ```
    :0123456789*#
   Z:000001000000
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 702 | TOLL DENY TABLE |
| MMC 703 | TOLL ALLOWANCE TABLE |

# [705] ASSIGN SYSTEM SPEED DIAL

Enables the assignment of system speed dialling numbers. There are up to 500 entries available for programming (or 950 entries if set in MMC 861 SYSTEM OPTIONS). Each speed dial number consists of a trunk or trunk group access code followed by a separator and up to 24 digits to be dialled. These dialled digits may consist of 0-9, and #. If the system recognizes a valid trunk or trunk group access number, it will automatically insert the separator.

NOTE: If 500 entries are allowed, the bin numbers are 500-999; if 950 entries are allowed, the bin numbers are 050-999.

## DEFAULT DATA

NONE

## PROGRAM BUTTONS

| | |
|---|---|
| B | Used to insert a flash code ‘F’ |
| C | Used to insert a pause code ‘P’ |
| D | Used to insert a pulse/tone conversion code ‘C’ |
| E | Used to mask/unmask following digits-shows as ‘[’ or ‘]’ |
| F | Used to enter name for speed dial bin (see MMC 706) |
| ANS/RLS | Used to save the speed dial number and name to the CID translation table (MMC 728). |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 705.<br>Display shows: | SYS SPEED DIAL<br>500: |
| 2. Dial speed index desired (e.g., 505)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | SYS SPEED DIAL<br>505:_ |
| 3. Enter access code (e.g., 9) plus the phone number up to 24 digits (digits will scroll under) and press Right Soft button to return to step 2. | SYS SPEED DIAL<br>505:9-121223456789_ |
| 4. Press F key to toggle to MMC 706 step 3 to enter name. | SYS SPEED NAME<br>505:_ |

5. If you want to save the speed dial number and name to the CID translation table (MMC 728), press the ANS/RLS button and dial 1 for YES. (The speed dial name must exist)

```
SYS SPEED DIAL
ADD CLI XLT ?NO
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 606 | ASSIGN SPEED BLOCK |
| MMC 706 | SYSTEM SPEED DIAL BY NAME |

# [706] SYSTEM SPEED DIAL BY NAME

Allows a name up to 11 characters to be entered for each system speed dial location. This name enables the speed dial number to be located when using the directory dial feature.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NO NAMES

## PROGRAM BUTTONS

| | |
|---|---|
| ANS/RLS | Used to save the speed dial number and name to the CID translation table (MMC 728). |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 706.<br>Display shows: | SYS SPEED NAME<br>500: |
| 2. Dial system speed entry number (e.g., 505)<br>OR<br>Press Volume button to select entry number and press Right Soft button to move cursor. | SYS SPEED NAME<br>505: |
| 3. Enter name using dial keypad and press Right Soft button to return to step 2.<br>OR<br>Press the F key to return to MMC 705, step 3. | SYS SPEED NAME<br>505:TELECOMS<br><br>SYS SPEED DIAL<br>505: |
| 4. If you want to save the speed dial number and name data to the CLI translation table (MMC 728), press ANS/RLS button and dial 1 for YES.<br>(The speed dial number must exist) | SYS SPEED NAME<br>ADD CLI XLT ?NO |

5. Press Right Soft button to return to step 2 above.
   OR
   Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 606 | ASSIGN SPEED BLOCK |
| MMC 705 | ASSIGN SYSTEM SPEED DIAL |

# [707] AUTHORIZATION CODE

Enables the authorization feature on a per-class of service selection. There are 500 available entries. Authorization codes must be 4-10 digits long.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 707.<br>Display shows: | AUTHOR.CODE(001)<br>C:01 |
| 2. Dial code index number.(e.g., 005)<br>OR<br>Press Volume button to selected index number and press Right Soft button to move cursor. | AUTHOR.CODE(005)<br>_ C:01 |
| 3. Enter authorization code (minimum of four digits and a maximum of 10 digits) via dial keypad (e.g., 1234567890) and press Right Soft button to move cursor. | AUTHOR.CODE(005)<br>1234567890 C:01 |
| 4. Enter class of service number 01-30 (e.g., 05)<br>OR<br>Press Volume button to select COS and press Right Soft button to select and return to step 2. | AUTHOR.CODE(005)<br>1234567890 C:05 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 305 | ASSIGN FORCED CODE |
| MMC 701 | ASSIGN COS CONTENTS |

# [708] ACCOUNT CODE

Enables the account code entry feature. There are 999 available entries.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 708.<br>Display shows: | ACCOUNT CODE<br>001: |
| 2. Dial code index number (e.g., 005)<br>OR<br>Press Volume button to selected index number and press Right Soft button to move cursor. | ACCOUNT CODE<br>005: |
| 3. Enter account code (maximum 12 digits) via dial keypad (e.g., 1234) and press Right Soft button to move cursor back to step 2. | ACCOUNT CODE<br>005:1234 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 305 ASSIGN FORCED CODE

# [709] TOLL PASS CODE/SPECIAL CODE TABLE

This MMC provides a means to program trunk code tables.

| No | Special Code | Description |
|---|---|---|
| 0 | PBX CODE | This table contains up to five entries and is used to identify the trunk access codes needed for toll restriction when the system is used with either a PBX or a CENTREX-supplied dial tone. Toll restriction will only be applied on trunks flagged as PBX in MMC 401 if a trunk access code entered in this table is dialled. Toll restriction will be applied to the digits following the trunk access code. |
| 1 | SPECIAL CODE | This table identifies the special feature codes used to activate central office custom-calling features such as CID Block and Call Waiting Disable. The special feature codes can be used on a per-call basis without affecting LCR or toll restriction programming. There is a maximum of 10 entries available, each of which may be up to four digits long. |
| 2 | TOLL OVERRIDE | This table of eight entries is used to identify the numbers that will bypass all dialling restrictions. This bypass includes toll restriction, trunk access and forced authorization or account codes. Each entry in the table can be up to 14 digits long. |
| 3 | OVRD USE TRK GRP | This entry designates the trunk group that toll override calls will access. |

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 709.<br>Display shows: | PBX ACCESS CODE<br>1: |
| 2. Select PBX, SPECIAL CODE, TOLL OVERRIDE or OVRD USE TRK GRP.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TOLL OVERRIDE<br>1: |
| 3. Enter index number (e.g., 3)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TOLL OVERRIDE<br>3:_ |

4. Enter via dial keypad the desired access / feature code (e.g., 911)
   Press Right Soft button to enter and return to step 3 and enter more entries.

```
TOLL OVERRIDE
3:911
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 401 | TRUNK LINE/PBX LINE |
| MMC 702 | TOLL DENY TABLE |
| MMC 703 | TOLL ALLOWANCE TABLE |
| MMC 305 | ASSIGN FORCED CODE |

### TOLL RESTRICTION

| | |
|---|---|
| MMC 702 | TOLL DENY TABLE |
| MMC 703 | TOLL ALLOWANCE TABLE |
| MMC 704 | ASSIGN WILD CHARACTER |

# [710] LCR DIGIT TABLE

The LCR DIGIT TABLE contains all numerical digits for the completion of outgoing call placement. This table works in conjunction with LCR ROUTE TABLE, LCR TIME TABLE and LCR MODIFY DIGITS TABLE. There is a maximum 2000 entries with a digit string length of 10 numerical digits. This system automatically maintains entered digit strings in numerical order. The characters * and # are also accepted for use with feature codes.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 710.<br>Display shows: | LCR DIGIT (0001)<br>DIGIT: |
| 2. Dial LCR entry (e.g., 0005)<br>OR<br>Press Volume button to select entry and press Right Soft button to move cursor. | LCR DIGIT (0005)<br>DIGIT:_ |
| 3. Enter LCR digit string via the dial keypad and press Right Soft button.<br>OR<br>Press Left Soft button to return to step 1. | LCR DIGIT (0005)<br>DIGIT:305426 |
| 4. Enter digit length (max. 31)<br>Cursor will move to RT (route selection) | LCR DIGIT (0005)<br>LENGTH:10 RT:01 |
| 5. Enter RT (01-32)<br>Valid entry will return you to step 1. | LCR DIGIT (0005)<br>LENGTH:10 RT:01 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 712 LCR ROUTE TABLE

# [711] LCR TIME TABLE

This table, through the LCR ROUTES, allows calls placed at any given time of day to use the least cost trunk route that is available. When LCR ROUTE ADVANCE is allowed, it is possible for calls to be placed on more expensive trunks on any given time of day. There are four possible time entries per day; the start time of the next time period is the end time of the previous time period.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 711.<br>Display shows: | `LCR TIME (SUN:A)`<br>`HHMM:  LCRT:-` |
| 2. Dial day of week (SUN-SAT, e.g., WED)<br>OR<br>Press Volume button to make day selection and press Right Soft button. | `LCR TIME (WED:A)`<br>`HHMM:  LCRT:-` |
| 3. Dial time band (A-D, e.g., B)<br>OR<br>Press Volume button to make selection and press Right Soft button. | `LCR TIME (WED:B)`<br>`HHMM:  LCRT:-` |
| 4. Dial time via keypad (24-hour format, e.g., 0800)<br>Cursor moves to LCRT (see MMC 712) | `LCR TIME (WED:B)`<br>`HHMM:0800 LCRT:-` |
| 5. Dial time table number (1-4)<br>OR<br>Press Volume button to make selection and press Right Soft button. | `LCR TIME (WED:B)`<br>`HHMM:0800 LCRT:1` |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 710 | LCR DIGIT TABLE |
| MMC 712 | LCR ROUTE TABLE |
| MMC 713 | LCR MODIFY DIGIT TABLE |

# [712] LCR ROUTE TABLE

The LCR ROUTE TABLE is responsible for selecting a specific trunk group in the completion of an outward bound call. This table works in conjunction with LCR DIGIT TABLE, LCR TIME TABLE, LCR COS TABLE and LCR MODIFIED DIGITS TABLE. After you dial a valid digit string, the system uses the LCR ROUTE TABLE to select a specific predetermined trunk group. There is a maximum of 32 routes available.

If more than one trunk group is available for call completion, the system uses the first designated trunk group and then the succeeding trunk groups. If all trunk groups are busy in a selected route, call queue becomes active and allocates trunks as they become available.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 712.<br>Display shows: | LCR ROUTE (01:1)<br>C:1 G:NONE M:--- |
| 2. Dial LCR ROUTE table number (e.g., 05)<br>OR<br>Press Volume button to selected table and press Right Soft button to move cursor. | LCR ROUTE (05:1)<br>C:1 G:NONE M:--- |
| 3. Dial TIME BAND index number 1-4 (e.g., 2)<br>OR<br>Press Volume button to selected index and press Right Soft button to move cursor. | LCR ROUTE (05:2)<br>C:1 G:NONE M:--- |
| 4. Dial LCR COS number 1-8 (e.g., 4)<br>OR<br>Press Volume button to selected COS and press Right Soft button to move cursor. | LCR ROUTE (05:2)<br>C:4 G:NONE M:--- |
| 5. Dial TRUNK GROUP access code (e.g., 801)<br>OR<br>Press Volume button to selected access code and press Right Soft button to move cursor. | LCR ROUTE (05:2)<br>C:4 G:801 M:--- |

6. Dial MODIFY DIGITS index number (e.g., 050)
   OR
   Press Volume button to selected index number and press Right Soft button to move cursor.
   OR
   Press Right Soft button to skip step and move cursor to step 2.

```
LCR ROUTE (05:2)
C:4 G:801  M:050
```

```
LCR ROUTE (05:2)
C:4 G:801  M:---
```

7. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 310 | LCR CLASS OF SERVICE |
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 713 | LCR MODIFY DIGIT TABLE |

# [713] LCR MODIFY DIGIT TABLE

This program is sometimes referred to as Outgoing Dial Rules. It enables the system to add or delete a digit string or singular digit if needed to complete a call. With these digits inserted, a long distance call will be placed over a local line using the common carrier network. The characters * and # can also be entered. There are 200 modify digit entries available.

| Option | Description | Max. No. of Digit Entries |
|---|---|---|
| NOF DEL DGT | Number of digits to delete | 15 |
| I | Insert (before dialling string) | 14 |
| A | Append (after dialling string) | 14 |

DIGIT STRING KEY
Insert String + Digit String(delete) + Append String

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 713.<br>Display shows: | LCR MODIFY (001)<br>NOF DEL DGT:00 |
| 2. Enter index number (e.g., 005)<br>OR<br>Press Volume buttons to make selection and press Right Soft button to move cursor. | LCR MODIFY (005)<br>NOF DEL DGT:00 |
| 3. Enter number of digits to delete.<br>OR<br>Press Right Soft button to skip step and move cursor to next step. | LCR MODIFY (005)<br>NOF DEL DGT:01 |
| 4. Enter digits to be inserted (e.g., 10288)<br>OR<br>Press Right Soft button to skip step or to store information and advance to next step. | LCR MODIFY (005)<br>I:10288_ |

5. Enter digits to be appended (e.g., 45678)
   OR
   Press Right Soft button to skip step or to store information and return to step 2.

```
LCR MODIFY (005)
A:_
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 310 | LCR CLASS OF SERVICE |
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 712 | LCR ROUTE TABLE |

# [714] DID NUMBER AND NAME TRANSLATION

Assigns an incoming DID call to a specific ring plan destination. It also provides a call waiting option, if needed, so that a second incoming DID call can be received. The table is also used to define which MOH source a caller to that DID number will hear when placed on hold. A name up to 11 characters can be added to the number. There is a maximum of 999 entries. If there is no matching number on DID service, the call is routed to the operator group.

| Option | Description |
|---|---|
| DGT | Digits to be received from Trunk line (up to 16 digits may be entered). |
| MOH SOURCE | Allows the technician to select what the calling party will hear if the call is placed on hold. There are four possible music selections. |
| PRI | DID priority option. There are nine priority levels: priority 1 is the highest and priority 9 is the lowest. When calls come into a station group and all group members are busy, the system will assign a priority to the DDI numbers so that calls from a high-priority DDI number will be placed at the front of the group queue. If this option is set to NO, the call held longest in the group queue has the highest priority. |
| RING PLAN<br>1: XXX, 2: XXX,<br>3: XXX, 4: XXX,<br>5: XXX, 6: XXX | Ring plan and destination during each ring plan. The destination can be a station, station group, trunk or trunk group. If a trunk or trunk group is selected the trunks must be programmed as E & M trunks to allow the received digits to be re-sent. This is referred to as DID Repeat digits over tie line. Entering the character 'B' means to repeat the received digits. |
| CW | Call Waiting Yes/No. (Allows a second DID call to be received.) |
| MC | The maximum call count. When this is set to 99, the feature will not work. When set to 0, if a call comes in that matches DID digits and DGT field then the system will reject the call. When set between 1 and 98, if a call comes in that matches DID digits and DGT field then the system counts the same DID digits, and if the count is the same or higher than this value, the system sends busy signal to caller. |
| DC | The number of digits to delete. This is useful with Tandem switching, mixed numbering plans and DID Repeat digits over tie line. Maximum number of digits that can be deleted is 16. |
| NAME | Enter up to 11 characters to identify call. Refer to MMC 104, STATION NAME, for how to enter the name. |
| TONE | Assigns ring tone to DLI port |
| CADENCE | Assigns ring cadence to SLT port |

## CONDITIONS

If an E&M line is designated as FOLLOW DID TRANS in MMC 416 (ASSIGN E&M / DID RINGDOWN), calls are terminated according to the station direct dial translation table in MMC 714, DID NUMBER AND NAME TRANSLATION.

## DEFAULT DATA

| INDEX | DIGIT | MOH | PRI | 1-6 | CW | MC | DC | NAME |
|---|---|---|---|---|---|---|---|---|
| 001 | 2*** | NONE | NO | B | N | 99 | 0 | NONE |
| 002 | 3*** | NONE | NO | B | N | 99 | 0 | NONE |
| 003 | 5*** | NONE | NO | B | N | 99 | 0 | NONE |
| 004 | 8*** | NONE | NO | B | N | 99 | 0 | NONE |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 714.<br>Display shows: | DID DIGIT (001)<br>DGT: |
| 2. Enter valid index number (e.g., 005) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | DID DIGIT (005)<br>DGT: |
| 3. Enter digits to be translated (e.g., 5065) via dial keypad and press Right Soft button to move cursor. | DID DIGIT (005)<br>DGT:5065 |
| 4. Enter the MOH source for this entry.<br>OR<br>Press Volume button to select option and press Right Soft button to return to step 3 above. | DID DIGIT (005)<br>MOH:NONE PRI:NO |
| 5. Enter priority level via dial keypad.<br>(1-9 or NO)<br>OR<br>Press Volume button to make selection and press Right Soft buttons to advance to next step. | DID DIGIT (005)<br>MOH:NONE PRI:NO |
| 6. Enter station or group number for each Ring Plan destination via dial keypad (e.g., 530)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance to next step. | DID DIGIT (005)<br>1:530 2: |

7. Enter call wait option via dial keypad.
   (1 for YES, 0 for NO)
   OR
   Press Volume button to make selection and press Right Soft button to advance to next step.

```
DID DIGIT  (005)
CW:N MC:99 DC:0
```

8. Enter maximum call count via dial keypad (00-99)
   OR
   Press Volume button to make selection and press Right Soft button to advance to next step.

```
DID DIGIT  (005)
CW:N MC:99 DC:0
```

9. Enter number or delete digit via dial keypad (0-16)
   O R
   Press Volume button to make selection and press Right Soft button to advance to next step.

```
DID DIGIT  (005)
CW:N MC:99 DC:0
```

10. Enter the name via dial keypad and press Right Soft button to return to Step 1.

```
DID DIGIT  (005)
NAME:
```

11. Press Transfer button to save and exit.
    OR
    Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

### TRUNK PROGRAMMING

Refer to RELATED ITEMS in MMC 411, ASSIGN E1 SIGNAL TYPE.

# [715] PROGRAMMED STATION MESSAGE

Allows custom messages to be programmed or default messages to be changed.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

There are 15 messages in the system:
MESSAGES 01-10 are 16-character pre-programmed default messages. Any of them can be changed. MESSAGES 11-15 are 16-character blank messages that can be created.

## DEFAULT DATA

TEN PROGRAMMED MESSAGES:

01. IN A MEETING
02. OUT ON A CALL
03. OUT TO LUNCH
04. LEAVE A MESSAGE
05. PAGE ME
06. OUT OF TOWN
07. IN TOMORROW
08. RETURN AFTERNOON
09. ON VACATION
10. GONE HOME

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 715.<br>Display shows: | PGM.MESSAGE (01)<br>IN A MEETING |
| 2. Enter message number (e.g., 11)<br>OR<br>Press Volume button arrow to make selection.<br>Press Right Soft button to move cursor. | PGM.MESSAGE (11)<br>Blank Message |
| 3. Enter message via dial keypad (maximum 16 characters)<br>Use ‘A’ button to toggle upper case/lower case.<br>Press Right Soft button to return to step 2. | PGM.MESSAGE (11)<br>IN MEETING ROOM |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 115 SET PROGRAMMED MESSAGE

# [716] UK LCR OPTION

This MMC provides UK LCR options.

| No | Option | Description |
|---|---|---|
| 0 | NETWORK CODE | This table provides the network access code when the call is routed to the secondary network. It contains up to 16 entries. Each code has max. 4 digits and the following "use" options (by default, all codes are empty and all "use" options are NONE):<br>0 NONE No code.<br>1 CCC The code used with Call Cost Code (CCC).<br>2 PIN The code used with PIN Code.<br>3 BOTH The code used with PIN Code and Call Cost Code. |
| 1 | PIN CODE | This table provides the PIN code when the call is routed to the secondary network. It contains up to four entries and each code has max. 10 digits. (By default, all tables are empty.) |
| 2 | CCC OPTION | Selects which number is used for Call Cost Code. (Default: Station Number).<br>0 STATION NUMBER Station number used for Call Cost Code.<br>1 NONE No Call Cost Code. |
| 3 | STATION PIN NO. | This is assigned to PIN code table number for each station number. (Default: all stations are 1) |

## DEFAULT DATA

SEE DESCRIPTION

## ACTION

1. Press Transfer button and enter 716.
   Display shows:

   DISPLAY:
   ```
   NETWORK CODE
   01:     USE:NONE
   ```

2. Enter option number 0-3
   OR
   Press Volume buttons to select number
   and press Right Soft button to move cursor.

   DISPLAY:
   ```
   NETWORK CODE
   01:     USE:NONE
   ```

3. Enter number 0-16
   OR
   Press Volume buttons to select number
   and press Right Soft button to move cursor.

   DISPLAY:
   ```
   NETWORK CODE
   02:_    USE:NONE
   ```

4. Enter network access code via dial keypad

```
NETWORK CODE
02:1234 USE:NONE
```

5. Enter use option number (0-3)
   OR
   Press Volume button to make selection and press Right Soft button to save and return to step 3.

```
NETWORK CODE
02:1234 USE:CCC
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 400 | CUSTOMER ON/OFF PER TRUNK |
| MMC 310 | LCR CLASS OF SERVICE |
| MMC 710 | LCR DIGIT TABLE |
| MMC 711 | LCR TIME TABLE |
| MMC 712 | LCR ROUTE TABLE |
| MMC 713 | LCR MODIFY DIGIT TABLE |

# [717] UCD AGENT ID

This MMC defines UCD agent ID numbers or PIN numbers. These numbers are used to log UCD agents into the UCD groups. There are 300 available entries and each entry is tied to a specific UCD group. Agent ID codes can be up to four digits long.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 717.<br>Display shows: | AGENT PIN (001)<br>ID: GRP:NONE |
| 2. Dial code entry number (e.g., 005)<br>OR<br>Press Volume buttons to select number<br>and press Right Soft button to move cursor. | AGENT PIN (005)<br>ID:_ GRP:NONE |
| 3. Enter ID code via dial keypad (e.g., 1234) and<br>press Right Soft button to move cursor. | AGENT PIN (005)<br>ID:1234 GRP:NONE |
| 4. Enter group number (e.g., 505)<br>OR<br>Press Volume button to select group and<br>press Right Soft button to select and return to step 2.<br>OR<br>Select all groups | AGENT PIN (005)<br>ID:1234 GRP:505 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next<br>MMC. | |

## RELATED ITEMS

MMC 607 UCD OPTIONS

# [718] MY AREA CODE

This MMC defines the home area code and country code. This information is used for caller ID and ISDN calls in defining the area code on incoming calls. This MMC removes the local area code to allow callback without digit modifications in LCR.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 718.<br>Display shows: | MY AREA CODE<br>AREA : |
| 2. Enter 0 for COUNTRY or 1 for AREA.<br>OR<br>Press Volume buttons to make selection and press Right Soft button to move cursor. | MY AREA CODE<br>AREA : |
| 3. Enter area code (maximum 4 digits) via dial keypad (e.g., 2) and press Right Soft button to move cursor back to step 2. | MY AREA CODE<br>AREA :2 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

### TRUNK PROGRAMMING

Refer to RELATED ITEMS in MMC 411, ASSIGN E1 SIGNAL TYPE

# [719] IDLE DISPLAY

This program allows you to enter guidance data to be displayed on large LCD phones.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 719.<br>Display shows: | IDLE DISPLAY (01) |
| 2. Enter the number of the line on a large LCD phone (01~12) on which guidance data is to be displayed.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | IDLE DISPLAY (02) |
| 3. Enter guidance data via dial keypad and press Right Soft button to save and move to step 2. | IDLE DISPLAY (02)<br>WELCOME TO ABC |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 120 LARGE LCD OPTIONS

# [720] COPY KEY PROGRAMMING

Provides a tool for duplicating key assignments from one phone to another. This can be done on a per-station basis or on all stations, but not on a group of stations. A limitation is that the original and target phones must be of the same type (the same number of buttons).

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 720.<br>Display shows: | `[201] COPY KEY`<br>`FROM:NONE` |
| 2. Enter the station number to copy to (e.g., 205)<br>OR<br>Press Volume buttons to make selection and press Right Soft button to move cursor.<br>OR<br>Select all stations. | `[205] COPY KEY`<br>`FROM:NONE` |
| 3. Enter station number to copy from (e.g., 203) and cursor returns to step 2.<br>OR<br>Press Volume buttons to make selection and press Right Soft button to return to step 2. | `[205] COPY KEY`<br>`FROM:203` |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 721 | SAVE STATION KEY PROGRAMMING |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [721] SAVE STATION KEY PROGRAMMING

Provides a service tool which minimizes the accidental loss of programmable buttons on phones. First the data is saved and then the station can be replaced with another station type or the keys can be reprogrammed to other features. Once testing or replacement is completed, the data can be restored to the individual station, providing the same type is in place.

## CONDITIONS

This program must be used carefully because key programming data is saved to a common programming database. When a new phone is connected, the system copies data from this database to the new phone.

## DEFAULT DATA

RESTORE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 721.<br>Display shows: | `[201] SAVE KEY`<br>`RESTORE` |
| 2. Enter desired station number (e.g., 205)<br>OR<br>Press Volume button to make selection and press Right Soft button. | `[205] SAVE KEY`<br>`RESTORE` |
| 3. Press Volume button to make function selection and press Right Soft button to enter and return to step 2. | `[205] SAVE KEY`<br>`SAVE` |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [722] STATION KEY PROGRAMMING

Allows the customizing of programmable buttons on specific phones and add-on modules (AOMs). For phones, buttons 1 and 2 are set as CALL buttons by default. For AOMs, all buttons are set as DS keys by default. Features are selected by pressing the dial keypad buttons the required number of times. For example, for OHVA, the number 6 is pressed three times. If the BOSS key is required, 2 is pressed for the first letter B and then the Volume button used to change the selection from BARGE to BOSS.

### DIAL KEYPAD

| COUNT | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| DIAL 2 | AB | BARGE | CAD | |
| DIAL 3 | DGPALM | EP | FAUTO | |
| DIAL 4 | GPIK | HDSET | ICONF | |
| DIAL 5 | LANREQ | LANREQ | LANREQ | |
| DIAL 6 | MMPA | NEW | OHVA | |
| DIAL 7 | PAGE | PAGE | RB | SETDND |
| DIAL 8 | TG | UA | VG | |
| DIAL 9 | WAKEUP | XCHIN | WAKEUP | WAKEUP |

**Programmable Button Assignments**

| Feature | Description | Feature | Description |
|---|---|---|---|
| **AB** | ABSENCE | **MMPG** | MEET ME PAGE |
| **ABAND** | ABANDONED CALL | **MS** | MANUAL SIGNALLING |
| **ABW** | AGENT BUSY/WRAP UP | **MSG** | MESSAGE |
| **ACC** | ACCOUNT | **MUTE** | MUTE |
| **ALARM** | ALARM | **MW** | MESSAGE WAIT |
| **AN/RLS** | ANSWER/RELEASE | **NEW** | NEW CALL |
| **BARGE** | BARGE-IN | **NND** | NAME NUMBER DATE |
| **BILL** | BILL (Hotel Feature) | **NOCLIP** | NO CID SEND |
| **BLOCK** | OHVA BLOCK | **NPG** | NETWORK PAGE |
| **BOOTH** | BOOTH (Hotel Feature) | **NS** | NETWORK STATION |
| **BOSS** | BOSS/SECRETARY | **NXT** | CID NEXT |

| Feature | Description | Feature | Description |
|---|---|---|---|
| **CAD** | CALL ACTIVITY DISPLAY | **OHVA** | OFF-HOOK VOICE ANNOUNCE |
| **CALL** | CALL BUTTON | **OPER** | OPERATOR |
| **CAMP** | STATION CAMP-ON | **PAGE** | PAGE |
| **CANMG** | MESSAGE CANCEL | **PAGPK** | PICKUP PAGE HOLD |
| **CBK** | CALLBACK | **PARK** | CALL PARK ORBIT |
| **CC** | CALL COVERAGE | **PAUSE** | PAUSE |
| **CHIN** | CHECK IN (Hotel Feature) | **PMSG** | PROGRAMMED STATION MESSAGE |
| **CHOUT** | CHECK OUT (Hotel Feature) | **PRB** | PRIVACY RELEASE AND BRIDGE |
| **CHOICE** | CHOICE<br>(Related to News Server) | **PROG** | SET PROGRAM |
| **CLIP** | CALLER ID | **PTHR** | PATH REPLACEMENT |
| **CONF** | CONFERENCE | **RB** | ROOM BILL<br>(Hotel Feature) |
| **CONP** | CONNECTED NAME DISPLAY | **REJECT** | OHVA REJECT |
| **CR** | CALL RECORD<br>(Requires SVMi module) | **RETRY** | AUTO REDIAL ON BUSY |
| **CREDIT** | CREDIT(Hotel Feature) | **REVW** | REVIEW |
| **CS** | CALL STATUS | **RP** | RING PLAN |
| **CSNR** | CALLER ID SAVE NUMBER REDIAL | **RSV** | ROOM STATUS VIEW<br>(Hotel Feature) |
| **DGPALM** | EASY ALARM SET TO REMOTE STATION | **RTO** | RING PLAN TIME OVERRIDE |
| **DICT** | DICTATION | **SETDND** | SET DO NOT DISTURB |
| **DIR** | DIRECTORY | **SETMG** | SET MESSAGE W/O RING |
| **DIVERT** | EXECUTIVE CALL DIVERT TO SECRETARY | **SG** | STATION GROUP |
| **DLOCK** | DOOR LOCK | **SLOCAT** | STAFF LOCATOR<br>(Hotel Feature) |
| **DND** | DO NOT DISTURB | **SNR** | SAVED NUMBER REDIAL |
| **DNDO** | DO NOT DISTURB OVERRIDE | **SP** | UCD SUPERVISOR |
| **DP** | DIRECT PICKUP | **SPD** | SPEED DIAL |
| **DROP** | CALL DROP | **SPKR** | SPEAKER |
| **DS** | DSS KEY | **SSET** | ISDN SUPPLEMENTARY SERVICE SET |

| Feature | Description | Feature | Description |
|---|---|---|---|
| **DT** | DTS KEY | **STATE** | SET EXECUTIVE STATE |
| **EP** | ESTABLISHED CALL PICKUP | **STORE** | STORE DISPLAYED NUMBER |
| **EXTMIC** | EXTERNAL MIC | **SYSALM** | SYSTEM ALARMS |
| **FAUTO** | FORCED AUTO ANSWER | **TG** | TRUNK GROUP |
| **FLASH** | FLASH | **TIMER** | TIMER |
| **FWRD** | CALL FORWARD | **TP** | TERMINAL PORTABILITY |
| | | **TRARPT** | TRAFFIC REPORT |
| **GPIK** | GROUP PICKUP | **TRSF** | TRANSFER |
| **HDSET** | HEADSET MODE | **UA** | UNIVERSAL ANSWER |
| **HLDPK** | HOLD PICKUP | **VG** | VMS GROUP MESSAGE (Requires SVM-800) |
| **HOLD** | HOLD | **VM** | VOICE MAIL MEMO (Requires SVMi module) |
| **HOTEL** | HOTEL (Hotel Feature) | **VMADM** | VOICE MAIL ADMINISTRATION (Requires SVMi module) |
| **ICONF** | ISDN 3 PTY CONFERENCE | **VMAME** | ANSWER MACHINE EMULATION (Requires SVMi module) |
| **IDISC** | ISDN 3 PTY DISCONNECTION | **VMMSG** | VOICE MAIL MESSAGE KEY (Requires SVMi module) |
| **IG** | IN/OUT GROUP | **VMSCMT** | VMS COMMENT (Requires SVM) |
| **IHOLD** | ISDN 3-PARTY HOLD | **VMSMSG** | VMS MESSAGE (Requires SVM) |
| **INFDSP** | INFORMATION DISPLAY (Requires News/Call Plus) | **VMSOUT** | VMS OUT CALL (Requires SVM) |
| **INQIRE** | INQUIRE | **VMSREC** | VMS RECORD (Requires SVM) |
| **IRET** | ISDN 3 PTY RETRIEVE | **VMSVAC** | VMS VACANT (Requires SVM) |
| **ISPY** | CID SPY | **VT** | VOICEMAIL TRANSFER |
| **LANREQ** | LAN REQUEST | **WAKEUP** | WAKE UP (Hotel Feature) |
| **LCR** | LEAST COST ROUTING | **XCHIN** | EXPRESS CHECK IN (Hotel Feature) |
| **LISTN** | GROUP LISTENING | | |
| **LNR** | LAST NUMBER REDIAL | | |
| **LOG** | CALL LOGGING | | |
| **MMPA** | MEET ME PAGE ANSWER | | |

## DEFAULT DATA

For phones, buttons 1 and 2 are set as CALL buttons by default. (Other settings depend on the keyset type.) For AOMs, all buttons are set as DSS buttons by default.

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 722.<br>Display shows: | [201] KEY (MAST)<br>01:CALL1→ |
| 2. Enter selected station number (e.g., 205)<br>OR<br>Press Volume button to select station and press Right Soft button to move cursor. | [205] KEY (MAST)<br>01:CALL1→ |
| 3. Enter selected key number (e.g., 18)<br>OR<br>Press Volume button to select key number and press Right Soft button to move cursor. | [201] KEY (MAST)<br>18:NONE→_ |
| 4. Using table above, press dial keypad to select number.<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor to step 5 to enter extender, if required, or to return to step 2. | [201] KEY PROG.<br>18:NONE→GPIK_ |
| 5. Enter extender if required (e.g., 03)<br>OR<br>Press Volume button to make selection and press Right Soft button to return to step 2. | [201] KEY PROG.<br>18:NONE→GPIK03 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 720 | COPY KEY PROGRAMMING |
| MMC 721 | SAVE STATION KEY PROGRAMMING |

# [723] SYSTEM KEY PROGRAMMING

This MMC is similar to MMC 722, Station Key Programming, except that changes are made system-wide rather than on a per-station basis. Features are entered via the dial key-pad by pressing numbers as shown in the table.

### TYPE OF PHONE

| No | Type of Phone | Description |
|---|---|---|
| 00 | 24 BTN SETS | Phone with 24 program buttons |
| 01 | 12 BTN SETS | Phone with 12 program buttons |
| 03 | EU 6B SETS | EU phone with 6 program buttons |
| 05 | 48/64 BTN AOMS | AOM with 48/64 program buttons |
| 06 | 20 BTN SETS | Phone with 20 program buttons |
| 07 | 28 BTN SETS | Phone with 28 program buttons |
| 08 | 18 BTN SETS | Phone with 18 program buttons |
| 09 | 8 BTN SETS | Phone with 8 program buttons |
| 10 | 99 BTN SETS | Phone with 99 program buttons |
| 11 | 38 BTN SETS | Phone with 38 program buttons |
| 12 | 21 BTN SETS | Phone with 21 program buttons |
| 13 | 14 BTN SETS | Phone with 14 program buttons |
| 14 | DS-07S SETS | 7000 Range phone |

### DIAL KEYPAD

| COUNT | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| DIAL 2 | AB | BARGE | CAD | |
| DIAL 3 | DGPALM | EP | FAUTO | |
| DIAL 4 | GPIK | HDSET | ICONF | |
| DIAL 5 | LANREQ | LANREQ | LANREQ | |
| DIAL 6 | MMPA | NEW | OHVA | |
| DIAL 7 | PAGE | PAGE | RB | SETDND |
| DIAL 8 | TG | UA | VG | |
| DIAL 9 | WAKEUP | XCHIN | WAKEUP | WAKEUP |

See **Programmable Button Assignments** in MMC 722.

## DEFAULT DATA

SEE DEFAULT DATA IN MMC 722

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 723.<br>Display shows: | TYPE:24 BTN SETS<br>01:CALL1→ |
| 2. Enter type of set via dial keypad (e.g.,1)<br>OR<br>Press Volume button to make selection and press Right Soft button. | TYPE:12 BTN SETS<br>01:CALL1→ |
| 3. Enter key number (e.g., 03)<br>OR<br>Press Volume button to make selection and press Right Soft button. | TYPE:12 BTN SETS<br>03:NONE→ |
| 4. Using table above, press dial keypad to select number<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor to step 5 to enter extender, if required.<br>OR<br>Press Left Soft button to return to step 3. | TYPE:12 BTN SETS<br>03:NONE→GPIK |
| 5. Enter extender if required (e.g., 03)<br>OR<br>Press Volume button to make selection and press Right Soft button to return to step 2. | TYPE:12 BTN SETS<br>03:GPIK→GPIK03 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 720 | COPY KEY PROGRAMMING |
| MMC 721 | SAVE STATION KEY PROGRAMMING |

# [724] DIAL NUMBERING PLAN

This MMC allows the technician to change directory numbers for stations, trunks, station groups, trunk groups and feature access codes. The system can be pre-programmed with default 3- or 4-digit numbering for stations, station groups and trunk numbers depending on the position of the DIP switches on the MP40 card. There is an error message provided to prevent the accidental duplication of a directory number or feature access code.

| No | Type of Dial No | Description |
|---|---|---|
| 00 | STN DIAL NO. | This is where station directory numbers are changed or assigned.<br>Default: 201-2xx, 3xx (last 319) or 2001-2xxx |
| 01 | TRK DIAL NO. | This is where trunk directory numbers are changed or assigned.<br>Default: 701-7xx or 7001-7xxx |
| 02 | AA/VD DIAL NO | Not used |
| 03 | MISC DIAL NO. | This is where directory numbers for relays, MOH ports and the alarm sensor are changed or assigned.<br>Default: Internal MOH: 371<br>External MOH: 372-377<br>External PAGE: 3752-3753<br>Common Bell: 3991 →<br>Loud Bell: 3995 |
| 04 | STNG DIAL NUMBER | This is where station group numbers are changed or assigned.<br>Default: 500-5xx or 5001-5xxx |
| 05 | TRKG DIAL NUMBER | This is where trunk group numbers are changed or assigned.<br>Default: The first is 9 or 0, 800-828 |
| 06 | FEAT DIAL NUMBER | This is where feature access codes are changed or assigned. Dialling codes are entered via the dial keypad by pressing a number the required number of times to select the feature. For example, for OHVA, the number 6 would be pressed three times.<br>NOTE: Remember that this program applies system-wide. |
| 07 | S0 STN DIAL NO. | This is where directory numbers for BRI station ports are changed or assigned.<br>Default: 8701-8764 |
| 09 | NTWK LCR DIAL NO | This is where additional LCR access codes are entered if two or more OfficeServ 7400 systems are networked together.<br>Default: NONE |

| No | Type of Dial No | Description |
|---|---|---|
| 10 | VIRT EXT DIAL NO | This is where virtual station directory numbers are changed or assigned.<br>Default: SLT: 3501-3596, DGP: 3401-3496 |
| 11 | MGI DIAL NO. | This is where MGI port directory numbers are changed or assigned.<br>Default: 3801-38xx |
| 12 | IP STN DIAL NO. | This is where IP-based station directory numbers are changed or assigned.<br>Default: 3201-3296 |
| 13 | WLAN DIAL NO, | This is where IP-based station directory numbers are changed or assigned.<br>Default: 3301-3396 |
| 14 | VOIP NET DIAL NO | This is where Samsung proprietary switch-to-switch VoIP networking trunk signalling port directory numbers are changed or assigned.<br>Default: 8301-8364 |
| 15 | H323 TRK DIAL NO | This is where VoIP H.323 trunk signalling port directory numbers are changed or assigned.<br>Default: 8401-8464 |
| 16 | SIP TRK DIAL NO | This is where VoIP SIP trunk signalling port directory numbers are changed or assigned.<br>Default: 8501-8564 |
| 17 | UMS DIAL NUMBER | This is where IP UMS port directory numbers are changed or assigned<br>Default: 8665-8696 |
| 18 | SIP STN DIAL NUMBER | This is where VOIP SIP station port directory numbers are changed or assigned<br>Default: 8601-8664. |

## FEATURE NUMBERING DIAL KEYPAD

| COUNT | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| DIAL 2 | AB | BARGE | CAD | |
| DIAL 3 | DGPALM | EP | FAUTO | |
| DIAL 4 | GPIK | HDSET | ICONF | |
| DIAL 5 | LANREQ | LANREQ | LANREQ | |
| DIAL 6 | MMPA | NEW | OHVA | |
| DIAL 7 | PAGE | PAGE | RB | SETDND |
| DIAL 8 | TG | UA | VG | |
| DIAL 9 | WAKEUP | XCHIN | WAKEUP | WAKEUP |

## Feature Code Assignments and Default

| Feature | Default | Description |
|---|---|---|
| ABAND | 64 | ABANDONED CALL |
| ABS | NONE | ABSENCE |
| ABW | NONE | AGENT BUSY/WRAP UP |
| ACCT | 47 | ACCOUNT |
| ALLCLR | NONE | ALL CLEAR |
| ALMCLR | 57 | ALARM |
| AUTH | NONE | AUTHORIZATION CODE |
| BARGE | NONE | BARGE-IN |
| BILL | NONE | BILL (Hotel Feature) |
| BLOCK | NONE | OHVA BLOCK |
| BOSS | NONE | BOSS/SECRETARY |
| CAMP | 45 | STATION CAMP-ON |
| CANMG | 42 | MESSAGE CANCEL |
| CBK | 44 | CALLBACK |
| CHIN | NONE | CHECK IN (Hotel Feature) |
| CHOUT | NONE | CHECK OUT (Hotel Feature) |
| CHOICE | NONE | CHOICE (Related to News Server) |
| CONF | 46 | CONFERENCE |
| CONP | NONE | CONNECTED NAME DISPLAY |
| CR | NONE | CALL RECORD (Requires SVMi module) |
| CREDIT | NONE | CREDIT (Hotel Feature) |
| DGPALM | NONE | EASY ALARM SET TO REMOTE STATION |
| DICT | NONE | DICTATION |
| DIR | NONE | DIRECTORY |
| DIRPK | 65 | DIRECT PICKUP |
| DISALM | 58 | DISA ALARM CLEAR |
| DIVERT | NONE | EXECUTIVE CALL DIVERT TO SECRETARY |
| DLOCK | 13 | DOOR UNLOCK |
| DND | 40 | DO NOT DISTURB |
| DNDO | NONE | DO NOT DISTURB OVERRIDE |
| FAUTO | 14 | FORCED AUTO ANSWER |
| FLASH | 49 | FLASH |
| FWD | 60 | CALL FORWARD |
| GRPK | 66 | GROUP PICKUP |
| HDSET | NONE | HEADSET MODE |
| HLDPK | 12 | HOLD PICKUP |

| Feature | Default | Description |
|---|---|---|
| HOLD | 11 | HOLD |
| HOTEL | NONE | HOTEL (Hotel Feature) |
| ICONF | NONE | ISDN 3-PARTY CONFERENCE |
| IDISC | NONE | ISDN 3-PARTY DISCONNECTION |
| IG | 53 | IN/OUT GROUP |
| IHOLD | NONE | ISDN 3-PARTY HOLD |
| INFDSP | NONE | INFORMATION DISPLAY (Requires News/Call Plus) |
| IRET | NONE | ISDN 3-PARTY RETRIEVE |
| LCR | # | LEAST COST ROUTING |
| LISTN | NONE | GROUP LISTENING |
| LNR | 19 | LAST NUMBER REDIAL |
| LOG | NONE | CALL LOGGING |
| MMPA | 56 | MEET ME PAGE ANSWER |
| MMPG | 54 | MEET ME PAGE |
| MSG | 43 | MESSAGE |
| MYGRPK | 28 | MY PICKUP GROUP CALL PICKUP |
| NEW | NONE | NEW CALL |
| NOCLIP | NONE | NO CID SEND |
| NPAGE | NONE | NETWORK PAGE |
| OHVA | NONE | OFF-HOOK VOICE ANNOUNCE |
| OPER | 0 | OPERATOR |
| PAGE | 55 | PAGE |
| PAGPK | 10 | PICKUP PAGE HOLD |
| PARK | NONE | CALL PARK ORBIT |
| PMSG | 48 | PROGRAMMED STATION MESSAGE |
| PTHR | NONE | PATH REPLACEMENT |
| RB | NONE | ROOM BILL (Hotel Feature) |
| REJECT | NONE | OHVA REJECT |
| RP | NONE | RING PLAN |
| RSV | NONE | ROOM STATUS VIEW (Hotel Feature) |
| RTO | NONE | RING PLAN TIME OVERRIDE |
| SELFID | NONE | SELF SYSTEM ID |
| SETMG | 41 | SET MESSAGE W/O RING |
| SLOCAT | NONE | STAFF LOCATOR (Hotel Feature) |
| SLTALM | NONE | EASY ALARM SET TO SELF STATION |
| SLTMMC | 15 | NORMAL PHONE PROGRAMMING |

| Feature | Default | Description |
|---|---|---|
| SNR | 17 | SAVED NUMBER REDIAL |
| SPEED | 16 | SPEED DIAL |
| SRELOC | NONE | SET RELOCATION |
| SSET | NONE | ISDN SUPPLEMENTARY SERVICE SET |
| STATE | NONE | SET EXECUTIVE STATE |
| TP | NONE | TERMINAL PORTABILIY |
| UA | 67 | UNIVERSAL ANSWER |
| VMADM | NONE | VOICE MAIL ADMINISTRATION (Requires SVMi module) |
| VMAME | NONE | ANSWER MACHINE EMULATION (Requires SVMi module) |
| VMMEMO | NONE | VOICE MAIL MEMO (Requires SVMi module) |
| VMMSG | NONE | VOICE MAIL MESSAGE KEY (Requires SVMi module) |
| VMSCMT | NONE | VMS COMMENT (Requires SVM -800) |
| VMSMSG | NONE | VMS MESSAGE (Requires SVM -800) |
| VMSOUT | NONE | VMS OUT CALL (Requires SVM -800) |
| VMSREC | NONE | VMS RECORD (Requires SVM -800) |
| VMSVAC | NONE | VMS VACANT (Requires SVM -800) |
| WAKEUP | 18 | WAKE UP (Hotel Feature) |
| WCOS | 59 | WORKING CLASS OF SERVICE |

## DEFAULT DATA

SEE DESCRIPTION
FEATURE CODES DEPEND ON COUNTRY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 724.<br>Display shows: | STN DIAL NUM:C1<br>S2-P01:201→ |
| 2. Dial option number to make selection (e.g., 06)<br>OR<br>Press Volume button to make selection and press Right Soft button to advance cursor. | FEAT DIAL NUMBER<br>ABAND :64→_ |
| 3. Dial first letter of feature name (e.g., 7)<br>OR | FEAT NUMBER PLAN<br>PAGE :55→ |
| Press Volume button to make selection then press Right Soft button to advance cursor. | FEAT NUMBER PLAN<br>PARK :NONE→_ |
| 4. Enter digits (e.g., 63) via the dial keypad. | FEAT NUMBER PLAN<br>PARK :NONE→63 |
| 5. Press Right Soft button to enter change and continue to make changes. | FEAT NUMBER PLAN<br>PARK :NONE→63 |
| If an error message appears indicating duplication of access code, enter 1 for YES for change or enter 0 for NO for no change. | SAME DIAL EXIST<br>CHANGE? Y:1,N:0 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

ALL MMCs

# [725] SMDR OPTIONS

Allows the system administrator to select the information printed on the SMDR report. The following options may be selected:

| No | Option | Default | Description |
|---|---|---|---|
| 00 | PAGE HEADER | YES | This option determines whether a page header will print at the top of each page. This would normally be turned off if SMDR is being sent to a Call Accounting machine. |
| 01 | LINE PER PAGE | 66 | This option selects the length of each page to determine when to print the SMDR header. The number of lines is in the range 01-99. |
| 02 | INCOMING CALL | YES | This option determines whether incoming calls will print on SMDR. |
| 03 | OUTGOING CALL | YES | This option determines whether outgoing calls will print on SMDR. |
| 04 | AUTHORIZE CODE | NO | This option determines whether authorization codes will print on SMDR. If this option is set to NO, '****' is printed on SMDR. |
| 05 | SMDR START TIME | YES | This option determines whether valid calls will include the minimum call time in total call duration. |
| 06 | IN/OUT GROUP | NO | This option allows a message, IN GROUP or OUT GROUP, to be printed in the 'digits dialled' column each time a station enters or leaves a group. |
| 07 | DND CALL | NO | This option allows a message, IN DND or OUT DND, to be printed in the 'digits dialled' column each time a station enters or leaves DND. |
| 08 | WAKE-UP CALL | YES | This option determines whether stations receiving an alarm reminder call will print on SMDR. |
| 09 | DIRECTORY NAME | NONE | This option allows the system administrator to enter a name up to 16 characters which will appear on the SMDR header. |
| 10 | CALLER ID DATA | NO | This option can be selected to print Caller ID data received from the Central Office on incoming calls. This option requires the use of a 132-column wide carriage printer or an 80-column printer set for condensed print. |
| 11 | ABANDON CALL | NO | If this option is set to YES, unanswered calls for which CID information was received will print on SMDR. |
| 13 | NO. OF DIAL MASK | 0 | If this option is set to a numeric value, the selected last digits of the number dialled field will be masked as asterisks(*) on the SMDR print out. Maximum masked digits is 18. First 4 digits will not mask. |

| No | Option | Default | Description |
|---|---|---|---|
| 15 | INCOMING ANSWER | NO | If this option is set to YES, the duration of calls ringing before being answered will print on SMDR. |
| 16 | INTERCOM CALL | NO | This option determines whether intercom calls will print on SMDR. |
| 17 | KEY MMC IN/OUT | NO | If set to YES the SMDR record will show programming being opened and closed in MMC 200 and MMC 800. |
| 20 | HOTEL PAGE FEED | END | This option determines where the page feed is inserted on HM REPT (Hotel Application Only) |
| 21 | HOTEL START LINE | 0 | This option determines that the number of empty lines per each page on HM REPT (Hotel Application Only) |
| 23 | DID NUM/NAME | YES | If this option is set to YES, received DID information will print on SMDR. |
| 24 | ITP REGISTRATION | NO | If set to YES the SMDR record will show registration of ITP phones. |
| 25 | SET RELOCATION | NO | If set to YES the SMDR record will show Set Relocations. |

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

SEE DESCRIPTION
SOME OPTIONS DEPEND ON COUNTRY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 725.<br>Display shows: | PAGE HEADER<br>PRINT: YES |
| 2. Dial the option number (e.g., 01)<br>OR<br>Use the Volume buttons to scroll through the options and press Right Soft button to select an option. | LINE PER PAGE<br>60 LINE/PAGE |
| 3. Enter the option data.<br>OR<br>Use the Volume buttons to press Right Soft button to save the data and return to step 2. | LINE PER PAGE<br>50 LINE/PAGE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 300 CUSTOMER ON/OFF PER STATION

# [726] VM/AA OPTIONS

This MMC is used to define all the in-band DTMF codes sent to voice mail ports. These in-band codes can be 0-9, A, B or C.

## CALL AND TYPE INFORMATION

This is a DTMF signalling string sent to a voice mail port when the voice mail port answers a call. This DTMF information tells the voice mail port what type of call it is receiving and where the call is coming from (e.g., call forwarded from extension 225).

## CALL PROGRESS TONES

These are sent to the voice mail system to provide information about the progress of the call (e.g., ring back, busy or disconnect). Most voice mail systems can use DTMF in-band signalling for more efficient call processing. This MMC has many parameters that can be programmed according to the type of automated attendant and/or voice mail system connected.

## CALL and TYPE INFORMATION

The format of the DTMF data sent to a VM/AA port is as follows:
[CALL TYPE] + [DN1] + [SEPARATOR] + [DN2]

an example of this would be:
[FORWARD ALL] from [225] on trunk [703]

Each field can be programmed individually as follows:

| Option | Description | Default |
|---|---|---|
| EXTENSION FOR DN1 | If set to yes, when the voice mail auto attendant system answers a call the system will send data in the DN1 field indicating that a station is ringing the VMAA port.<br>If set to no, when the voice mail auto attendant system answers a call the system will not send station data in the DN1 field. | No |
| TRUNK FOR DN1 | If set to yes, when the voice mail auto attendant system answers a call the system will send data in the DN1 field indicating that a trunk is ringing the VMAA port.<br>If set to no, when the voice mail auto attendant system answers a call the system will not send trunk data in the DN1 field. | No |
| EXTENSION FOR DN2 | If set to yes, when the voice mail auto attendant system answers a call the system will send data in the DN2 field indicating the originating station of the call ringing the VMAA port.<br>If set to no, when the voice mail auto attendant system answers a call the system will not send station data in the DN2 field. | No |

<table>
<tr><th>Option</th><th>Description</th><th>Default</th></tr>
<tr><td>TRUNK FOR DN2</td><td>If set to yes, when the voice mail auto attendant system answers a call the system will send data in the DN2 field indicating the originating trunk of the call ringing the VMAA port.<br>If set to no, when the voice mail auto attendant system answers a call the system will not send trunk data in the DN2 field</td><td>No</td></tr>
<tr><td>SEPARATOR</td><td>When both DN1 and DN2 are used, a digit defined here is sent between DN1 and DN2 so the VMAA system can determine where DN 1 stops and where DN 2 starts. The separator can be DTMF 0 through 9, *, #, A, B or C.</td><td>No</td></tr>
<tr><td>DISCONNECT SIGNAL</td><td>This is the call progress digit sent to the VMAA port in place of a disconnect open. The digit defined here is sent three times.</td><td>C</td></tr>
<tr><td>CALL TYPE ID</td><td>This is the DTMF digit that is sent first in the in band digit string and can identify any of the following call types
<table>
<tr><th>No</th><th>Call Type</th><th>Description</th><th>Default</th></tr>
<tr><td>0</td><td>DIRECT CALL</td><td>A call originating directly from another station in the system.</td><td>1</td></tr>
<tr><td>1</td><td>ALL FWD CALL</td><td>This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD ALL set.</td><td>2</td></tr>
<tr><td>2</td><td>BSY FWD CALL</td><td>This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD BUSY set.</td><td>3</td></tr>
<tr><td>3</td><td>NOA FWD CALL</td><td>This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD NO ANSWER set.</td><td>4</td></tr>
<tr><td>4</td><td>RECALL</td><td>A call is recalling the VM/AA port after being transferred and not answered.</td><td>4</td></tr>
<tr><td>5</td><td>DIR TRK CALL</td><td>A Trunk Line call has gone directly to VM/AA<br>(e.g., trunk 717 DIL to VM/AA).</td><td>6</td></tr>
<tr><td>6</td><td>OVERFLOW</td><td>A call has OVERFLOWED to the VM/AA port from a station group.</td><td>4</td></tr>
<tr><td>7</td><td>DID CALL</td><td>A DID call has called the VM/AA port.</td><td>8</td></tr>
<tr><td>8</td><td>MESSAGE CALL</td><td>A message button or message reply feature code has been used to call the VM/AA port.</td><td>9</td></tr>
</table></td><td></td></tr>
</table>

<table>
<tr><th>Option</th><th colspan="3">Description</th><th>Default</th></tr>
<tr><td>PROGRESS TONE ID</td><td colspan="3">These are the DTMF codes that is sent to the VMAA port in place of regular progress tones. For example, when a VMAA port goes off hook to originate or transfer a call, instead of hearing normal dial tone, it will hear DTMF ‘BA’. Progress tones can greatly increase the efficiency of a VMAA system because it is easier and quicker to detect DTMF than a busy, ring back or DND tone. Progress tones can identify any of the following.</td><td></td></tr>
<tr><td></td><td>No</td><td>Call Type</td><td>Description</td><td>Default</td></tr>
<tr><td></td><td>0</td><td>DIAL TONE</td><td>Dial Tone</td><td>No</td></tr>
<tr><td></td><td>1</td><td>BUSY TONE</td><td>Busy Tone</td><td>No</td></tr>
<tr><td></td><td>2</td><td>RINGBAK TONE</td><td>Ringback Tone</td><td>No</td></tr>
<tr><td></td><td>3</td><td>DND NO MORE</td><td>DND or No More Call Button Error</td><td>No</td></tr>
<tr><td></td><td>4</td><td>HDSET ANSWER</td><td>Off Hook Answer</td><td>No</td></tr>
<tr><td></td><td>5</td><td>SPKER ANSWER</td><td>On Hook Answer</td><td>No</td></tr>
<tr><td>CALLER ID NUMBER</td><td colspan="3">If set to YES, when the voice mail auto attendant system answers a call the system will send Caller ID data as DTMF tones to the VMAA port.</td><td>No</td></tr>
</table>

## GENERAL RULES

1. If a station is talking to a trunk and the user presses TRANSFER plus the station number, but the station is forwarded to VM/AA and VM/AA answers presses, pressing TRANSFER again to return to the trunk disconnects the VM/AA port.

2. If a VM/AA port leaves a message indication for a station and the station replies, any available port in the VM/AA group should ring, not only the one that left the message.

3. If a VM/AA port leaves a message for a station and the station replies, the MESSAGE LED is not automatically turned off. If a VM/AA system turns on the MESSAGE LED, the VM/AA system must turn it off.

4. If DTMF call progress tones are not enabled, the system sends regular call progress tones.

5. When a VM/AA port calls a station that is in the AUTO ANSWER or VOICE ANNOUNCE mode, the phone will be forced to ring.

6. All calls to a VM/AA port or group ring with Trunk line ringing cadence, not intercom ring cadence.

## EXAMPLES OF VM/AA OPERATION (IN-BAND DTMF DIGIT STRING)

In the following example, all call and type data is turned on unless otherwise stated. X is the separator digit, all-default values are used in these examples and [ ] is not used.

A DIL 701 calls a VM/AA port or group:
[1] + [701] + [ ] + [ ]

In the above example, if Trunk Line information is not used:
[ ] + [ ] + [ ] + [ ](Nothing is used)

DIL 701 calls a call-forwarded station(205):
[2] + [205] + [X] + [701]

In the above example, if forward information is not used:
[ ] + [205] + [X] + [701]

In the above example, if forward and DN2/Trunk Line information is not used:
[ ] + [205] + [ ] + [ ]

DIL 701 calls group 501 that overflows to VM/AA:
[4] + [501] + [x] + [701]

In the above example, if overflow information is turned off:
[ ] + [ ] + [ ] + [ ](Nothing is sent)

A DID call rings the VM/AA directly:
[B] + [9999] + [ ] + [ ]
9999 are the DID digits from Trunk Line

In the above example, if did information is turned off:
[ ] + [9999] + [ ] + [ ]

A station transfers(blind or screened) a call(Trunk Line, DID or intercom) to VM/AA group or port. When the transferring station hangs up(blind transfer):
[ ]+[ ]+[ ]+[ ](Nothing is sent)

A station(202) transfers a Trunk Line call(702) to a station(225) that is Call Forward All to a VM/AA group or port. When the transferring station hangs up(blind transfer) and the VM/AA group or port answers:
[2] + [225] + [x] + [702]

A station(202) transfers a Trunk Line call(702) to a group(501) that overflows to a VM/AA group or port:
[4] + [501] + [X] + [702]

In the above example, if overflow information is turned off:
[ ] + [ ] + [ ] + [ ](Nothing is sent)

A station(205) calls a VM/AA port or group:
[1] + [205] + [ ] + [ ]

In the above example, if direct information is turned off:
[ ] + [ ] + [ ] + [ ](Nothing is sent)

A station(205) calls using MESSAGE key:
[9] + [205] + [ ] + [ ]

In the above example, if message information is turned off:
[ ] + [ ] + [ ] + [ ](Nothing is sent)

A call(702) recalls back from station 225 to the VM/AA group:
[4] + [225] + [x] + [702]

In the above example, if recall and DN2/CO information are turned off:
[ ] + [ ] + [ ] + [ ](Nothing is sent)

## DEFAULT DATA

SEE DESCRIPTION
SOME OPTIONS DEPEND ON COUNTRY

## PROGRAM BUTTONS

| | |
|---|---|
| A | Used to insert alpha character ‘A’ |
| B | Used to insert alpha character ‘B’ |
| C | Used to insert alpha character ‘C’ |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 726.<br>Display shows: | EXT FOR DN1<br>YES |
| 2. Enter the OPTION number from the above list (e.g., 3)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TRK FOR DN2<br>NO |
| 3. Enter 1 for YES or 0 for NO.<br>OR<br>Press Volume button for selection and press Right Soft button to return to step 2. | TRK FOR DN2<br>YES |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 207 ASSIGN VM/AA PORT

# [727] SYSTEM VERSION DISPLAY

This MMC is used for system version display only (READ ONLY). The displays depend on which modules are installed in the system

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 727.<br>Display shows: | MP40 VERSION<br>'05.03.16 V2.44 |
| 2. Press Volume button to show other modules, e.g.: | |
| LP40 | C1-LP VERSION<br>'05.01.20 V2.43 |
| GWIM | C1-S01<br>05.12.17 V1.12 |
| GSIM | C1-S02<br>05.12.17 V1.12 |
| 8COMBO | C1-S04<br>NO VERSION DATA |
| GPLIM | C1-S05<br>NO VERSION DATA |
| TEPRI/EP | C1-S06<br>02.08.20 V1.05 |
| SVMi-20E | C1-S07<br>05.08.03 V5.00 |
| MGI64 | C1-S09<br>05.12.28 V1.09 |
| DLI | C2-S2:16DLI<br>NO VERSION DATA |
| SLI | C2-S3:16SLI<br>NO VERSION DATA |

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [728] CID TRANSLATION TABLE

Allows the system administrator or technician to associate a CID number received from the central office with a name programmed in this translation table. If there is no match between a received number and a name in this table, 'no CID name' will be displayed.

The translation table consists of 2000 entries. Each entry comprises a telephone number up to 14 digits and a name up to 16 digits.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 728.<br>Display shows first entry | CLIP XLAT(0001)<br>DGT: |
| 2. Dial entry number (e.g., 0005)<br>OR<br>Use Volume button to scroll through entries and press Right Soft button to select entry. | CLIP XLAT (0005)<br>DGT:_ |
| 3. Enter telephone number and press Right Soft button to advance to name entry.<br>OR<br>Enter telephone number and press Left Soft button to return to step 2. | CLIP XLAT (0005)<br>DGT:3054264100 |
| 4. Enter associated name and press Right Soft button to return to step 2. | CLIP XLAT (0005)<br>SAMSUNG |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 312 | ALLOW CALLER ID |
| MMC 608 | ASSIGN REVIEW BLOCK |

# [740] STATION PAIR

Assigns a secondary station to a phone. This secondary station can be a keyset or single line phone. The secondary station assumes the Call Forwarding, Class of Service, LCR Class, and DND attributes of the primary station. The secondary station will ring when the primary station rings, and vice versa. Features can be set or cancelled at either station.

NOTE: If the COS is changed for either station in MMC 301, the change affects both stations. Messages from the secondary extension will display the secondary extension number.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 740.<br>Display shows | [201] PRIMARY<br>SECONDARY:NONE |
| 2. Enter the primary station number via dial keypad (e.g., 201).<br>OR<br>Use Volume button to select and press Right Soft button. | [201] PRIMARY<br>SECONDARY:NONE |
| 3. Enter the secondary station number via dial keypad (e.g., 205)<br>OR<br>Use Volume button to select and press Right Soft button. | [201] PRIMARY<br>SECONDARY:205 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 102 | CALL FORWARD |
| MMC 301 | ASSIGN STATION COS |
| MMC 310 | LCR CLASS OF SERVICE |

# [746] COSTING DIAL PLAN

The COSTING DIAL PLAN is used to analyze the leading dialled digits of a dialled number and determine what DIAL PLAN it is to follow. Data entry for this program is in three fields: ENTRY, DIGITS and COST RATE table reference.

### DIGITS

Up to 500 entries may be made. Each entry can be up to 10 digits. These are the entries that will be searched to find a match with the digits dialled by the station making the call. This is a leading digits table and the system will look for the exact leading digits in the table that match the number dialled. For example, if a user dials 1305 and the COSTING DIAL PLAN contains 1, 1308 and 1312, the dialled digits will be matched to 1 because 1308 and 1312 do not form a complete match. When this table is created by the technician or when any new entries are added, the system automatically places all entries in numerical order.

Wild cards(∗) can be used to represent any digit. The Toll Restriction Wild Card Character assignment (MMC 704) is common with Call Costing and Toll Restriction. When all entries are used, [LAST ENTRY] is displayed.

### DIAL PLAN

This shows in the programming display as DP and represents a pattern (1-7, 8). This pattern is used by MMC 433, TRUNK COST RATE, to determine the correct billing according to MMC 749, RATE CALCULATION TABLE

When the system finds a DIAL PLAN match for the digits dialled, the system checks MMC 749 to see what RATE CALCULATION to use for costing the call.

### EXAMPLES

When a station user dials a number, the system will search the COSTING DIAL PLAN to find a match. If 13056 is dialled and this MMC contains entries 1, 13, 1305 and 1401, the closest match is 1305 and this will be selected. If 1305 is dialled and this MMC contains entries 1, 13, 13056 and 1401, no action will be taken until the station user dials another digit. If the next digit is 6, the 13056 entry is the closest match and this entry will be selected, but if the next digit is anything other than 6, the 13 entry is the closest match.

Whenever a new entry is added, the system will sort all entries in numerical order because this is the logical order in which the system analyzes digits. Wild cards are checked after exact digits. If 1813 and 18∗∗ are entered, the system will check 1813 first. If no match is found, it will check 18∗∗.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 746.<br>Display shows: | COST DP (001)<br>DIGIT: |
| 2. Dial CALL COST entry (e.g., 005)<br>OR<br>Press Volume button to select entry and press Right Soft button to move cursor. | COST DP (005)<br>DIGIT:_ |
| 3. Enter digit string via the dial keypad and press Right Soft button. | COST DP (005)<br>DIGIT:1305 |
| 4. Enter DIAL PLAN 1-8 (e.g. 8)<br>OR<br>Press Volume button to select dial plan and press Right Soft button to save and return to step 2. | COST DP (005)<br>CALL RATE: 8 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 433 | COST RATE |
| MMC 747 | RATE CALCULATION TABLE |

# [747] RATE CALCULATION TABLE

The RATE CALCULATION TABLE is used to define the billing charges for each COST RATE. These rate tables correlate with the Trunk Cost Rate and the Costing Dial Plan. There are eight call costing rates. Each rate has the following data fields.

| No | Type | Description |
|---|---|---|
| 0 | 1ST DUR (FIRST INTERVAL DURATION) | This is the amount of time at the beginning of each call to which a fixed cost is applied. The range is 0-999 seconds; e.g. 80 seconds (three minutes). |
| 1 | 1ST COST (FIRST INTERVAL COST) | This is the cost for the first interval duration in £s sterling or Euros. The range is 0 to 999; e.g. 345 (£3.45 or €3.45). |
| 2 | 2ND DUR (SECOND INTER-VAL DURATION) | This is the duration of each billing increment after the first interval has expired. The range is 0-999 seconds; e.g. 006 seconds (six seconds). |
| 3 | 2ND COST (SECOND INTER-VAL COST ) | This is the cost for each billing increment, in £s sterling or Euros, after the first interval has expired. The range is 0-999; e.g. 100 (£1.00 or €1.00). |
| 4 | SURCHARGE | This is a one-time charge, in £s sterling or Euros, that is applied to the call over and above the time charges. The range is 0-999; e.g. 150 (£1.50 or €1.50). |

Note: Currency values (£ or €) depend on the setting for the USE EURO option in MMC 210.

## DEFAULT DATA

ALL COST RATES: NO DATA

## ACTION

1. Press Transfer button and enter 747.
   Display shows:.

   DISPLAY:
   ```
   COST RATE (1)
   1ST DUR :000 SEC
   ```

2. Dial COST RATE number 1-8 (e.g., 3)
   OR
   Press Volume button to select COST RATE and press Right Soft button to move cursor.

   DISPLAY:
   ```
   COST RATE (3)
   1ST DUR :000 SEC
   ```

3. Dial option number 0-4 (e.g., 1)
   OR
   Press Volume button to select option and press Right Soft button to move cursor.

   DISPLAY:
   ```
   COST RATE (3)
   1ST COST:000
   ```

4. Enter data via dial keypad.(e.g., 125=1.25)
   OR
   Press Volume button to select data and press Right Soft button to save and return to step 3.

```
COST RATE (3)
1ST COST:125
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 433 | COST RATE |
| MMC 746 | COSTING DIAL PLAN |

# [750] VM CARD RESTART

This MMC is used for the Samsung Built-In Voice Mail module.

There are four options available in this MMC:

<table>
<tr><th>No</th><th>Option</th><th>Description</th></tr>
<tr><td>0</td><td>MBX DOWNLOAD</td><td>When the Built-In Voice Mail module starts, part of the power-up procedure will download data from the system to determine time, date, what mailboxes to create, and system numbering plan. This must be done at least once, but once done this download feature can be turned off (NO) to save booting time.</td></tr>
<tr><td>1</td><td>VM RESTART</td><td>If this option is set to YES the Built-In Voice Mail module will immediately restart according to the DOWNLOAD option specified above.</td></tr>
<tr><td>2</td><td>VIRTUAL NUMBER DOWNLOAD</td><td>This option determines which type of virtual port to include during the mailbox and system numbering plan downloading procedure. The virtual port type are as follows:
<table>
<tr><th>No</th><th>Type</th><th>Description</th></tr>
<tr><td>0</td><td>VIRTUAL EXT</td><td>Virtual extension number</td></tr>
<tr><td>1</td><td>DESKTOP ITP</td><td>DESKTOP IP-based phone number</td></tr>
<tr><td>3</td><td>MOBILE ITP</td><td>Wireless IP-based mobile phone number</td></tr>
<tr><td>4</td><td>BRI STATION</td><td>ISDN terminal number</td></tr>
<tr><td>5</td><td>VOIP NET TRK</td><td>VoIP networking trunk number</td></tr>
<tr><td>6</td><td>VOIP 323 TRK</td><td>VoIP H.323 trunk number</td></tr>
<tr><td>7</td><td>VOIP SIP TRK</td><td>VoIP SIP trunk number</td></tr>
<tr><td>8</td><td>REMOTE STN</td><td>Remote station number via networking</td></tr>
</table></td></tr>
<tr><td>3</td><td>VM CONNECTION</td><td>There are three methods for connecting voice mail to OS7400:
<table>
<tr><th>No</th><th>Type</th><th>Description</th></tr>
<tr><td>0</td><td>IP-UMS SERVER</td><td>Connect via separate, unified messaging server</td></tr>
<tr><td>1</td><td>SVMi CARD</td><td>Connect via SVMi-20E module</td></tr>
<tr><td>2</td><td>DLI CONNECT</td><td>Connect via SVM-400</td></tr>
</table></td></tr>
</table>


NOTE

**Removing Built-In Voice Mail Module**

If during any test procedures you need to run the system with a default database and power up with options set to YES, the Built-In Voice Mail database will be overwritten according to the data in MMC 751 and the default numbering plan. If you plan this type of test, remove the Built-In Voice Mail module until the procedure is finished and the customer database is reloaded.

## DEFAULT DATA

ALL OPTIONS ARE NO

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 750.<br>Display shows: | MBX DOWNLOAD<br>NO |
| 2. Press Volume button to make selection and press Right Soft button. | VM RESTART<br>RESET NOW ? NO |
| 3. Press Volume button to make selection and press Right Soft button. | VM RESTART<br>RESET NOW ? YES |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [751] ASSIGN MAILBOX

This MMC is only used for the Samsung Built-In Voice Mail module. It assigns mailboxes to each station or group as required. During Voice Mail module power up, mailboxes will be created for each directory number with a 'YES' entry. Once the Voice Mail database has been created, new mailboxes can be added:

- through Voice Mail administration, or
- by adding a new mailbox in this MMC.

If a mailbox is to be removed, this must be done through Voice Mail administration.
If a station that does not have an associated mailbox calls the Voice Mail system, it will be answered by the Voice Mail system main greeting.

## CONDITIONS

Mailboxes that are needed for users who do not have an extension must be added through Voice Mail programming.

## DEFAULT DATA

ALL STATIONS: YES
ALL GROUPS: NO

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 751.<br>Display shows:. | ASSIGN MAIL BOX<br>[201] YES |
| 2. Dial station number.<br>OR<br>Press Volume button to scroll the number and press Right Soft button to move cursor. | ASSIGN MAIL BOX<br>[202] YES |
| 3. Dial 0 for NO or 1 for YES.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and return to step 2. | ASSIGN MAIL BOX<br>[202] NO |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [752] AUTO RECORD

This MMC is only used for the Samsung Built-In Voice Mail module. Specific stations in the phone system can be assigned to automatically record conversations. When this option is set, all incoming, all outgoing, or all calls (incoming and outgoing) can be recorded.

In this MMC you can assign:

- Station number: Which station can use this feature.
- Mailbox number: What mailbox the conversations are recorded in.
- I, O or B: What type of calls are recorded (in, out or both).
- Voice mail port number: What port is dedicated to the station.


**Before using the Auto Record feature, make sure that you are not violating any laws. Samsung is not responsible for any illegal use of this feature.**

## CONDITIONS

A maximum of eight stations can use this feature at one time. The same port cannot be assigned to more than one station. Attempts to do this will result in an error message. When a Voice Mail port is assigned here, it is automatically removed from the Voice Mail group defined in MMC 601.

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 752.
   Display shows:.

2. Dial station number via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

3. Dial mailbox number via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

## DISPLAY

```
AUTO RECORD
STN:201  MB:NONE
```

```
AUTO RECORD
STN:201  MB:NONE
```

```
AUTO RECORD
STN:201  MB:201
```

4. Dial VM number via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

```
AUTO RECORD
PORT:209  CALL:I
```

5. Dial call type via dial keypad (0: I, 1: O or 2: B)
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

```
AUTO RECORD
PORT:209  CALL:B
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [753] WARNING DESTINATION

This MMC is only used for the Samsung Built-In Voice Mail module. It provides an emergency destination for calls destined for the module if the module is removed or is offline.

In addition, any calls that are forwarded to the module will not forward; they will remain ringing at the 'fwd from' station until answered. This destination can be a station number or a group number.

## DEFAULT DATA

5000

## ACTION

1. Press Transfer button and enter 753.
   Display shows:

   DISPLAY:
   ```
   WARNING DEST.
   DEST:500
   ```

2. Dial station number or group number.
   OR
   Press Volume button to scroll through numbers and select.

   DISPLAY:
   ```
   WARNING DEST.
   DEST:501
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [754] VM HALT

This MMC is only used for the Samsung Built-In Voice Mail module. It is used to halt the module (take it offline). It ensures that there is no traffic on the module when it is removed from the system.

## DEFAULT DATA

PROC (process)

## ACTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 754.<br>Display shows: | VM HALT<br>STATUS:PROC |
| 2. Enter 1 to HALT or 0 to PROC<br>OR<br>Press Volume button to select. | VM HALT<br>STATUS:PROC |
| 3. If you select 1 to halt, display shows:<br>Press 1 to confirm. | VM HALT<br>ARE YOU SURE? YES |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [755] VM ALARM

This MMC is only used for the Samsung Built-In Voice Mail module. It will generate an alarm message in the mailbox defined in MMC 751 whenever the Voice Mail disk drive reaches a threshold.

The threshold is measured as a percentage of capacity. This means that if the MMC is set for 80, the alarm will be generated when the disk exceeds 80 % of the available drive space.

## DEFAULT DATA

THRESHOLD: 80%

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 755.<br>Display shows: | VM ALARM<br>THRESHOLD:80 |
| 2. Enter new threshold level (e.g. 70) | VM ALARM<br>THRESHOLD:70 |
| 3. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [756] ASSIGN VMMOH

This MMC is only used for the Samsung Built-In Voice Mail module. It is used to assign each port a Music-On-Hold source for the system from a sound file located on the Voice Mail module hard disk drive. The 100 available sound files are defined as numbers 5000 to 5099. To use the default music, select the number; otherwise, make sure you record the sound file first. Then, assign the sound file to a Voice Mail port.

For example, if you record sound file 5025 you would associate 25 with a specific Voice Mail port, e.g., 225. This will dedicate the port for use only as MOH and remove it from group 529 or 549. Now 225 will show up as a valid music source in MMCs 308, 309 and 408.

Each Music-On-Hold source assigned here requires one Voice Mail port.

NOTE: If the first Voice Mail port is used for VMMOH, it must be disabled before boot-up since the Voice Mail module and the system use port 1 during boot-up to exchange critical information. For this reason, it is suggested you use the last port for VMMOH.

## DEFAULT DATA

NOT USED

## ACTION

1. Press Transfer button and enter 756.
   Display shows:

   DISPLAY:
   ```
   SET VMMOH
   209 : NOT USED
   ```

2. Dial VM number (e.g. 215)
   OR
   Press Volume button to make a selection and press Right Soft button to move cursor.

   DISPLAY:
   ```
   SET VMMOH
   215 : NOT USED
   ```

3. Enter VM message number (e.g. 25)
   OR
   Press Volume button to make a selection and press Right Soft button to move cursor.

   DISPLAY:
   ```
   SET VMMOH
   215 : 25
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [757] VM IN/OUT

This MMC is only used for the Samsung Built-In Voice Mail module. It is used to assign each Voice Mail port as used for incoming, outgoing or both-way calls. This MMC must support outgoing calls if off-premises notification (beeper, outbound follow me or outbound notification) is used.

## DEFAULT DATA

IN/OUT

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 757.<br>Display shows: | VM IN/OUT<br>209 : IN/OUT |
| 2. Dial VM number (e.g. 215)<br>OR<br>Press Volume button to make a selection and press Right Soft button to move cursor. | VM IN/OUT<br>215 : IN/OUT |
| 3. Enter option via dial keypad (e.g. IN)<br>OR<br>Press Volume button to make a selection and press Right Soft button to move cursor. | VM IN/OUT<br>215 : IN |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [758] VM DAY/NIGHT

This MMC is only used for the Samsung Built-In Voice Mail module. The module can operate in either a DAY or NIGHT operating mode. The mode determines what main menu greetings and options are played to callers and can change automatically (if enabled in the module) according to the settings in this MMC.

This MMC contains either a DAY or NIGHT instruction for each Ring Plan.

## DEFAULT DATA

ALL RING PLANS: DAY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 758.<br>Display shows: | VM DAY/NIGHT<br>RING 1 : DAY |
| 2. Enter ring plan number.<br>OR<br>Press Volume button to make a selection and press Right Soft button to move cursor. | VM DAY/NIGHT<br>RING 3 : DAY |
| 3. Dial 0 for day or 1 for night.<br>OR<br>Press Volume button to make a selection and press Right Soft button to save and move cursor. | VM DAY/NIGHT<br>RING 3 : DAY |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 507 ASSIGN RING PLAN TIME

# [759] CLI RINGING

This MMC assigns a specific CID number received from the central office to a specific ring plan destination. Also allows you to reject a specific CID number and assign priorities. There are 9 priority levels: priority 1 is the highest and priority 9 is the lowest.

It also allows you to select the ring tone heard at a phone when called by a specific CID number. There is also a cadence control option to perform a similar function for SLTs. There are eight ring tones available along with a Follow Station (NO) option. There are five cadences and a Follow Station option (NO) for SLTs. The CID Ringing table consists of 100 entries.

## DEFAULT DATA

NONE

| Option | Description | |
|---|---|---|
| CLI | CID number to be received from the central office. Up to 16 digits may be entered. | |
| REJ | CID call reject option. When set to YES, if an incoming call matches the CID number and CLI field then the system will reject the call. | |
| PRI | CID priority option. There are 9 priority levels: priority 1 is the highest and priority 9 is the lowest. When calls come in to a station group and all group members are busy, the system will assign a priority to the CID numbers so that calls from a high priority CID number will be placed at the front of the group queue. If this option is set to NO, the call placed longest in the group queue has the highest priority. | |
| R1: XXX, R2: XXX,<br>R3: XXX, R4: XXX,<br>R5: XXX, R6: XXX | Ring plan and destination during each ring plan. The destination can be a station or station group. | |
| TONE | **Ring Tone options for a specific CID Number (No, 1~8)** | |
| | No | Calls will ring with the phone user's choice of ring frequency. |
| | 1-8 | Calls from the programmed CID number will ring phones with this ring frequency. |
| CAD | **Ring Cadence options for a specific CID Number at SLTs (No, 1~5)** | |
| | No | Calls will ring with the normal SLT ring cadences. |
| | 1 | Calls from the programmed CID number will ring SLTs with the intercom ring cadence. |
| | 2 | Calls from the programmed CID number will ring SLTs with the CO ring cadence. |
| | 3 | Calls from the programmed CID number will ring SLTs with the DOOR ring cadence. |
| | 4 | Calls from the programmed CID number will ring SLTs with the ALARM ring cadence. |
| | 5 | Calls from the programmed CID number will ring SLTs with the CALLBACK ring cadence. |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 759.<br>Display shows: | CLI RINGING(001)<br>CLI: |
| 2. Dial entry number (e.g. 005)<br>OR<br>Press Volume button to make a selection and press Right Soft button to move cursor. | CLI RINGING(005)<br>CLI:_ |
| 3. Enter CID number and press Right Soft button to advance to next entry.<br>OR<br>Enter CID number and press Left Soft button to return to step 2. | CLI RINGING(005)<br>CLI:1234567 |
| 4. Enter reject option via dial keypad. (1 for YES, 0 for NO)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor | CLI RINGING(005)<br>REJ:NO PRI:NO |
| 5. Enter priority level via dial keypad (1-9 or NO)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor | CLI RINGING(005)<br>REJ:NO PRI:NO |
| 6. Enter station or group number for each Ring Plan destination via dial keypad (e.g. 501).<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor | CLI RINGING(005)<br>R1:501 R2:NONE |
| 7. Dial 1-8 (or NO) to select ring tone (e.g. 2).<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor | CLI RINGING(005)<br>TONE:2 CAD:NO |
| 8. Dial 1-5 (or NO) to select ring cadence.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor | CLI RINGING(005)<br>TONE:2 CAD:NO |
| 9. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 312 ALLOW CALLER ID

# [760] ITEM COST TABLE

This MMC provides a means to assign a code to a billable item along with a 10-character name for the item. There are a maximum of 100 entries (00 to 99) in the table with item 00 reserved as the code for room deposits, 01 reserved as the code for phone deposits and items 89 to 99 reserved for other PMS stream items.

These item codes, with the exception of codes 93 to 99, will appear on the guests' bills at checkout and will serve to identify what each charge on the bill is for. The room bill, when printed, will also show telephone calls with an item designation of TEL and the name field will show the number dialled. In addition to the name, up to eight of the tax codes or rates defined in MMC 761 can be applied to each item.

**PRE DEFINED CODES**

| No | Code | Description |
|---|---|---|
| | Room Deposit | This is the code used for pre-pay room deposits. |
| 01 | Phone Deposit | This is the code used for pre-pay phone deposits |
| 02-88 | - | User-assignable code |
| 89 | W/UP SET | A wake up call was set |
| 90 | W/UP ANS | A wake up call was answered |
| 91 | W/UP N/ANS | A wake up call was not answered |
| 92 | W/UP CANCL | A wake up call was cancelled |
| 93 | Check In | A guest has checked into a room |
| 94 | Check out | A guest has checked out of a room |
| 95 | Available | A room has been flagged as AVAILABLE |
| 96 | Occupied | A room has been flagged as OCCUPIED |
| 97 | Clean Room | A room has been flagged as NEEDS CLEANING |
| 98 | Fix Room | A room has been flagged as NEED MAINTENANCE |
| 99 | Hold | A room has been flagged as HOLD |

## CONDITIONS

This function can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

NO ENTRIES

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 760.<br>Display shows: | ITEM CODE (00)<br>NAME:RM Deposit |
| 2. Enter valid code number (e.g., 02) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | ITEM CODE (02)<br>NAME: |
| 3. Enter item name (e.g., ROOM COST) via keypad | ITEM CODE (02)<br>NAME: ROOM COST |
| 4. Press Right Soft button to move cursor to tax entries. | ITEM CODE (02)<br>TAXES:00000000 |
| 5. Enter the tax rates that apply to this item (‘1’ selects each rate) and press Right Soft button to return to step 2. | ITEM CODE (02)<br>TAXES:11000000 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 761 TAX RATE SETUP

# [761] TAX RATE SETUP

This MMC allows the technician to set up the eight tax rates used in MMC 760. Each tax rate may be defined as a fixed value or as a percentage of the item cost. In addition, a 10-character name may be used to define the reason for the tax. The options are detailed below.

| Option | Description |
|---|---|
| TAX RATE | The number assigned to this tax rate. Tax rates are numbered 1 to 8 to match the rate field in MMC 760, counting from left to right. |
| TYPE | The type of tax. Defines if the VALUE is applied as a percentage (%) of the cost of an item (e.g. service charge) or is added as a fixed currency value (C) to an item or is applied as a Inclusive VAT percentage (I) of the cost of an item. |
| VALUE | The actual tax rate that will be applied to the item cost. |
| NAME | A 10-character name that will be displayed on the room bill alongside the tax. |

## CONDITIONS

This function can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.

## ENTERING CHARACTERS

Refer to ENTERING CHARACTERS in MMC 104, STATION NAME.

## DEFAULT DATA

ALL RATES ARE %

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 761.<br>Display shows: | TAX RATE (1)<br>TYPE:% VAL:00.00 |
| 2. Enter valid tax number, e.g., 2, via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TAX RATE (2)<br>TYPE:% VAL:00.00 |
| 3. Dial 0 for '%', 1 for 'C' or 2 for 'I'.<br>(Refer to table above)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TAX RATE (2)<br>TYPE:C VAL:00.00 |

4. Enter the tax rate or value via dial keypad.
   OR
   Press Volume button to make selection.
   If valid entry, system advances cursor.

```
TAX RATE   (2)
TYPE:C VAL:01.25
```

5. Enter name and press Right Soft button to return to step 2.

```
TAX RATE   (2)
NAME:MIA BED
```

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 760 ITEM COST TABLE

# [762] ROOM COST RATE

This MMC allows the technician to set up the cost rates for the week. Each room cost rate can be assigned with a percentage of the actual room cost from Sunday to Saturday.

EXAMPLE: If you set SUN: 150 %, 1. MON: 100 %, 2.TUE: 090 % ...

Then, if you set £100 as the room cost when checking in a guest, the real room cost will be £150 on Sunday, £100 on Monday and £90 on Tuesday.

## CONDITIONS

This function can be used only when the Hotel function is enabled in MMC 813, HOTEL OPERATION.

## DEFAULT DATA

ALL RATES ARE 100 %

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 762.<br>Display shows: | RM COST RAT(SUN)<br>100% : |
| 2. Dial day number 0-6 (e.g., 2)<br>OR<br>Press Volume button to select day and press Right Soft button to move cursor. | RM COST RAT(TUE)<br>100% : |
| 3. Enter room cost rate (001-999, e.g., 090) | RM COST RAT(TUE)<br>100% :090 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 760 ITEM COST TABLE

# [763] SECOND LCR

This option allows a user to get dial tone returned after the LCR code is dialled, and allows multiple LCR codes to be used. The procedure is as follows:

The user dials E-LCR code ➔ system returns dial tone ➔ user dials required number ➔ system checks number ➔ if the number matches, the call is routed to the required destination; if the number does not match, the call is routed according to MMC710 for normal LCR manipulation and routing.

| Option | Description | Range |
|---|---|---|
| IN DIGIT | Digits dialled after the E-LCR CODE. | Max 16 digits |
| OUT DIGIT | Translation of IN DIGIT entry. | Max 16 digits |
| USE LCR NUM | Used to specify which E-LCR code the IN DIGIT number matches. If ALL is selected the IN DIGIT number is valid for all E-LCR codes. | ALL, E-LCR1, E-LCR2, E-LCR3, E-LCR4 |
| NEXT ROUTE | Input the trunk group to send the call to. If LCR is selected the modified number is sent to MMC710. | LCR, Trunk Group Number |

## CONDITIONS

MMC 724 FEATURE CODE : E-LCR1, E-LCR2, E-LCR3, E-LCR4

.

## DEFAULT DATA

USE LCR NUM : ALL
NEXT ROUTE : LCR

## ACTION / DISPLAY

1. Press Transfer button and enter 763.
   Display shows:

   ```
   (001)IN DIGIT
   ```

2. Dial Table number 001-200
   OR
   Press Volume button to select Table number and press Right Soft button to move cursor.

   ```
   (001)IN DIGIT
   ```

3. Enter IN DIGIT value (maximum 16 digits) and press Right Soft button to move cursor.

   ```
   (001)IN DIGIT
   1234
   ```

4. Enter OUT DIGIT option number (1)
   OR
   Press Volume button to select OUT DIGIT and press Right Soft button to move cursor.

   ```
   (001)OUT DIGIT
   _
   ```

5. Enter OUT DIGIT value (maximum 16 digits) and press Right Soft button to move cursor

```
(001)OUT DIGIT
7500
```

6. Enter USE LCR NUM option number (2)
   OR
   Press Volume button to select USE LCR NUM and press Right Soft button to move cursor

```
(001)USE LCR NUM
_
```

7. Enter USE LCR NUM value (maximum 16 digits) and press Right Soft button to move cursor.

```
(001)USE LCR NUM
9
```

8. Enter NEXT ROUTE option number (3)
   OR
   Press Volume button to select NEXT ROUTE and press Right Soft button to move cursor.

```
(001)NEXT ROUTE
_
```

9. Enter NEXT ROUTE and press Right Soft button to move cursor

```
(001)NEXT ROUTE
LCR
```

10. Press Transfer button to save and exit.
    OR
    Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 310 | LCR CLASS |
| MMC 711 | LCR TIME |
| MMC 712 | LCR ROUTE |
| MMC 713 | LCR MODF. DGT |
| MMC 724 | NUMBER PLAN |

# [800] ENABLE TECHNICIAN PROGRAM

Used to open and close technician-level programming. If programming is not opened and an attempt is made to access a system MMC, an error message will be displayed.

## CONDITIONS

A 4-digit passcode is required to access this MMC. Each character can be digits 0-9. When opened, this MMC enables access to all MMCs.

## DEFAULT DATA

DISABLE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 800.<br>Display shows: | ENABLE TECH.PROG<br>PASSCODE: |
| 2. Enter passcode. | ENABLE TECH.PROG<br>PASSCODE:**** |
| Correct code shows: | ENABLE TECH.PROG<br>DISABLE TENANT:1 |
| Incorrect code shows: | ENABLE TECH. PROG<br>PASSCODE ERROR |
| 3. Enter 1 to enable or 0 to disable.<br>OR<br>Press Volume button to select and press Right Soft button to move tenant number and enter tenant number (1-2). | ENABLE TECH.PROG<br>ENABLE TENANT:1 |
| 4. Press Speaker button to advance to MMC entry level. | 801:TEC.PASSCODE<br>SELECT PROG.ID |
| 5. Enter the MMC required to begin programming | |
| 6. To log out and return to MMC 800, press Volume button to select DISABLE.<br>OR<br>Press Speaker button then Transfer button to return to normal display. Programming option will time out. | |

## RELATED ITEMS

MMC 801 CHANGE TECHNICIAN PASSCODE

# [801] CHANGE TECHNICIAN PASSCODE

Used to change the passcode which allows access to MMC 800, Enable Technician Program, from its current value.

## CONDITIONS

The passcode is four characters long. Each character can be digits 0-9. The current or old passcode is required for this MMC.

## DEFAULT DATA

DEFAULT PASSCODE: 4321

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 801. | TECH. PASSCODE<br>NEW CODE:_ |
| 2. Enter new passcode. | TECH. PASSCODE<br>NEW CODE:**** |
| 3. Enter new passcode again. | TECH. PASSCODE<br>VERIFY :**** |
| 4. If passcode is correct, press Right Soft key to continue and enter desired MMC. | TECH. PASSCODE<br>VERIFY :SUCCESS |
| If passcode is incorrect. | TECH. PASSCODE<br>VERIFY :FAILURE |
| System returns to step 2. | TECH. PASSCODE<br>NEW CODE:**** |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 800 ENABLE TECHNICIAN PROGRAM

# [802] CUSTOMER ACCESS MMC NUMBER

Allows the System Administrator (customer) to have access to certain MMCs. For example, it is required that the customer has access to MMC 102, Call Forward, for call forwarding but it is not required that the customer has access to MMC 710, LCR Digit Table, for LCR dial plans.

This MMC is for both tenants.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 802.<br>Display shows: | CUST.USE MMC :1<br>100:STN LOCK:YES |
| 2. Enter desired tenant number (1-2) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | CUST.USE MMC :1<br>100:STN LOCK:YES |
| 3. Enter desired MMC number via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | CUST.USE MMC :1<br>102:CALL FWD:YES |
| 4. Enter 1 for YES or 0 for NO via dial keypad.<br>OR<br>Press Volume button to make selection and press Left Soft button to return to step 3 to make additional entries. | CUST.USE MMC :1<br>102:CALL FWD:NO |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [803] ASSIGN TENANT GROUP

Allows the assignment of tenant groups on a per-chassis, slot and port basis. The simple rule is Chassis-Slot-Port = Tenant. The simplicity of this program allows for flexible assignments. The only information needed is the correct correlation of entries.

## DEFAULT DATA

ALL ASSIGNMENTS: TENANT 1

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 803.<br>Display shows: | TENANT GROUP<br>C:1 S:1 -01 T:1 |
| 2. Enter chassis number (if no change, press Right Soft button to move cursor). | TENANT GROUP<br>C:1 S:1 –01 T:1 |
| 3. Enter slot number (if no change press Right Soft button to move cursor). | TENANT GROUP<br>C:1 S:2 -01 T:1 |
| 4. Enter port number (if no change press Right Soft button to move cursor). | TENANT GROUP<br>C:1 S:2 -03 T:1 |
| 5. Enter tenant number (if no change press Right Soft button to return to step 2). | TENANT GROUP<br>C:1 S:2 -03 T:2 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [805] TX LEVEL AND GAIN

Allows the system administrator to set the base level of TX volume on phones. There are eight levels that can be controlled by the Volume buttons on phones, and 10 controllable levels in the system. This MMC allows the system administrator to classify any desired eight levels within 11.

| No | Option | Description |
|---|---|---|
| 0 | TX LEVEL CONTROL | Adjusts the transmitting sensitivity (max.: 9) Default values are: |
| | | INDEX: 0 1 2 3 4 5 6 7 |
| | | LEVEL: 0 1 2 4 3 5 6 7 |
| 1 | MISC TSW GAIN | Adjusts the level of the internal music source of the MP40 card or the external music source of the MIS module (0~7, higher numbers mean lower levels). Default value is 0. |
| 2 | TSW GAIN CONTROL | Adjusts the tone sensitivity. There are eight types of matrix connections of the T-Switch that adjust the tone sensitivity (0-7, below). Connection between Trunk lines are only applicable when set as 0 in MMC 421.<br>0 DGP DLI phone<br>1 SLT SLI phone<br>2 ATRK Analogue trunk<br>3 DTRK Digital trunk<br>4 DECT DECT terminal<br>5 VOIP MGI port or IP-based phone<br>6 SVMi SVMi port<br>7 WLAN WIP port |


**Do not change the default levels in this MMC without the assistance of Technical Support.**

## DEFAULT DATA

| TX \ RX | DGP | SLT | ATRK | DTRK | DECT | VOIP | SVMi | WLAN |
|---|---|---|---|---|---|---|---|---|
| DGP→ | 0.0 | 0.0 | 0.0 | 0.0 | -6.0 | 0.0 | -6.0 | +1.9 |
| SLT→ | 0.0 | -2.5 | 0.0 | -2.5 | -6.0 | 0.0 | -6.0 | +1.9 |
| ATRK→ | 0.0 | 0.0 | +1.9 | -6.0 | -6.0 | 0.0 | -6.0 | +1.9 |
| DTRK→ | 0.0 | -2.5 | +1.9 | 0.0 | -6.0 | 0.0 | -6.0 | 0.0 |
| DECT→ | 0.0 | 0.0 | 0.0 | +1.9 | -6.0 | 0.0 | -6.0 | 0.0 |
| VOIP→ | 0.0 | 0.0 | 0.0 | 0.0 | -6.0 | 0.0 | -6.0 | 0.0 |
| SVMi→ | 0.0 | 0.0 | 0.0 | 0.0 | -6.0 | 0.0 | -6.0 | 0.0 |
| WLAN→ | -6.0 | -2.5 | -6.0 | 0.0 | 0.0 | 0.0 | 0.0 | +1.9 |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 805.<br>Display shows: | TX LEVEL CONTROL<br>LEVEL 0→0 |
| 2. Press Volume button to make selection (0-3) and press Right Soft button to move cursor. | TX LEVEL CONTROL<br>LEVEL 1→1 |
| 3. (When the TX LEVEL CONTROL is selected) | |
| (a). Select the desired volume level via dial keypad.<br>OR<br>Press Volume button to go to the next volume level and press Right Soft button. | TX LEVEL CONTROL<br>LEVEL 1→1 |
| (b). Enter desired volume data via dial keypad.<br>OR | TX LEVEL CONTROL<br>LEVEL 1→3 |
| 4. (When the MISC TSW GAIN is selected)<br>Enter desired MISC/BGM TSW gain via dial keypad.<br>OR<br>Press Volume button to select desired MISC/BGM TSW gain and press Right Soft button. | MISC TSW GAIN<br>BGM/MOH :0 |
| 5. (When the TSW GAIN CONTROL is selected) | |
| (a). Select the TX TWS connect type via dial keypad.<br>OR<br>Press Volume button to go to the next TX TSW connect type and press Right Soft button. | TSW GAIN CONTROL<br>SLT→DGP :+0.0 |
| (b). Select the RX TSW connect type via dial keypad.<br>OR<br>Press Volume button to go to the next RX TSW connect type and press Right Soft button. | TSW GAIN CONTROL<br>SLT→ATRK:+0.0 |
| (c). Enter desired TSW gain control data via dial keypad.<br>OR<br>Press Volume button to scroll data and press Right Soft button. | TSW GAIN CONTROL<br>SLT→ATRK:+1.9 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [806] CARD PRE-INSTALL

Allows the pre-programming of a module slot for a specific module type. A module inserted into a system will not be recognized by the system until it is enabled using this MMC. Modules installed using this MMC will not be assigned in the system numbering plan—you should use MMC 724 to assign the desired directory numbers to extensions, trunks, ports or miscellaneous functions.


NOTE

If a module is removed and a different one inserted, and this MMC is performed, the memory associated with the previous module (e.g., key programming) will be erased.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 806.<br>Display shows: | C:1-S:1<br>8 DLI→8 DLI |
| 2. Enter chassis number via dial keypad (e.g., 1)<br>OR<br>Press Volume button to make selection and press Right Soft button. | C:1-S:1<br>8 DLI→8 DLI |
| 3. Enter slot number via dial keypad (e.g., 6)<br>OR<br>Press Volume button to make selection and press Right Soft button. | C:1-S:6<br>16 DLI→16 DLI |
| 4. Dial 1 for YES to reset module or dial 0 for NO.<br>OR<br>Press Volume button to make selection and press Right Soft button. | C:1-S:6<br>RESET CARD ? NO |
| 5. Dial 1 for YES to reset module or dial 0 for NO.<br>OR<br>Press Volume button to make selection and press Right Soft button. | C:1-S:6<br>ARE YOU SURE?NO |

6. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 724 DIAL NUMBERING PLAN

# [807] PHONE VOLUME CONTROL

Allows the system administrator to set phone volume levels.

| Phone Volume Level | | FX | |
|---|---|---|---|
| No | Type | No | Type |
| 0 | KEY TONE VOL | 0 | LINE VOLUME |
| 1 | SIDETONE VOL | 1 | SPEAKER VOLUME |
| 2 | HANDSET TX | 2 | NOR.LP ATTEN |
| 3 | MIC TX LEVEL | 3 | MIC LP ATTEN |
| 4 | NOISE GUARD | 4 | ACOU DECOUPL |
| 5 | NOISE THRES | 5 | ELEC DECOUPL |
| 6 | ALC THRES | 6 | T/R RATIO |
| 7 | TX/RX THRES. | 7 | R/T RATIO |
| 8 | TX/RX COMP | | |
| 9 | MIN RX VOL (28D, 12L, 21D, ITP) | | |


**Do not change the default levels in this MMC without the assistance of Technical Support.**

## DEFAULT DATA

DEPENDS ON PHONE TYPE (SHOWN FOR 21D)

| 21D | | FX | |
|---|---|---|---|
| Type | Default | Type | Default |
| KEY TONE VOL | 1 | LINE VOLUME | 3 |
| SIDETONE VOL | 1 | SPEAKER VOLUME | 14 |
| HANDSET TX | 4 | NOR.LP ATTEN | 4 |
| MIC TX LEVEL | 3 | MIC LP ATTEN | 5 |
| NOISE GUARD | 8 | ACOU DECOUPL | 8 |
| NOISE THRES | 1 | ELEC DECOUPL | 8 |
| ALC THRES | 7 | T/R RATIO | 2 |
| TX/RX THRES. | 3 | R/T RATIO | 2 |
| TX/RX COMP | 5 | | |
| MIN RX VOL | 6 | | |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 807.<br>Display shows: | VOL.CONTROL:US24<br>KEY TONE VOL:1 |
| 2. Enter phone type via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | VOL.CONTROL:EU24<br>KEY TONE VOL:1 |
| 3. Enter volume item via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | VOL.CONTROL:EU24<br>SIDETONE VOL:1 |
| 4. Enter volume data via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and return to step 3. | VOL.CONTROL:EU24<br>HANDSET TX :6 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [810] HALT PROCESSING

Used only in the event that all data processing needs to be stopped either in a single chassis slot or in the entire system.

## DEFAULT DATA

PROC

## ACTION

1. Press Transfer button and enter 810.
   Display shows:

   DISPLAY:
   ```
   HALT/PROCESSING
   C:ALL S:ALL→PROC
   ```

2. Enter chassis selection via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to advance cursor.
   OR
   Select all chassis and slots (and go to step 4).

   DISPLAY:
   ```
   HALT/PROCESSING
   C:1  S:ALL→PROC
   ```

   DISPLAY:
   ```
   HALT/PROCESSING
   C:ALL S:ALL→PROC
   ```

3. Enter slot number via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to advance cursor.

   DISPLAY:
   ```
   HALT/PROCESSING
   C:1  S:2→PROC
   ```

4. Enter 1 for HALT or 0 for PROC.
   OR
   Press Volume button to make selection and press Right Soft button to enter and return to step 2.

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [811] RESET SYSTEM

Provides a means of restarting the system. The system can simply be reset or it can be reset and all memory cleared to default values.

**Extreme care should be taken when using this MMC. If the system is restarted, all voice/data connections are dropped. If memory is cleared, all customer data is deleted and the system returns to default status.**

| No | Type | Description |
|---|---|---|
| 0 | RESET SYSTEM | System reset only with Smart Media read. |
| 1 | CLEAR MEMORY | System reset and make default system with Smart Media read. |
| 2 | FAST RESTART | System reset only without Smart Media read. |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 811.
   Display shows:

   DISPLAY:
   SYSTEM RESTART
   RESET SYSTEM?NO

2. Enter reset type (0-2) via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

   DISPLAY:
   SYSTEM RESTART
   CLEAR MEMORY?NO

3. Dial 1 for YES or 0 for NO.
   OR
   Press Volume button to make selection and press Right Soft button.

   DISPLAY:
   SYSTEM RESTART
   CLEAR MEMORY?YES

4. Dial 1 for YES or 0 for NO.
   OR
   Press Volume button to make selection and press Right Soft button.

   **If memory is cleared, system will return with default time and date and default extension numbers.**

   If system is reset only, it will return to normal programmed status.

   DISPLAY:
   SYSTEM RESTART
   ARE YOU SURE?YES

## RELATED ITEMS

NONE

# [812] SET COUNTRY CODE

Selects the country for correct system programming and operation.

**This MMC must be run by the installing technician before any other programming is done.**


**Do not change the default values in this MMC without the assistance of Technical Support.**

**If you change the country selection, the system will restart and all customer data returns to the default status of the selected country.**

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 812.<br>Display shows: | SELECT COUNTRY<br>Undefined |
| 2. Press Volume button to make selection and press Right Soft button. | SELECT COUNTRY<br>U.K. |
| 3. Press Volume button to select YES or NO and press Right Soft button. | DEFAULTING SYSTM<br>ARE YOU SURE?NO |


**if you select 'YES', this will restart the system and all data will be reset to default values.**

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 811 RESET SYSTEM

# [813] HOTEL OPERATION

Allows the installing technician to enable the HOTEL feature.

## DEFAULT DATA

DISABLE

## ACTION / DISPLAY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 813.<br>Display shows: | HOTEL OPERATION<br>DISABLE |
| 2. Dial 1 for ENABLE or 0 for DISABLE.<br>OR<br>Press Volume button to make selection and press Right Soft button. | HOTEL OPERATION<br>ENABLE |
| 3. Dial 1 for YES or 0 for NO.<br>OR<br>Press Volume button to make selection and press Right Soft button. | HOTEL OPERATION<br>CHANGE NOW ? NO |
| 4. Dial 1 for YES or 0 for NO.<br>OR<br>Press Volume button to make selection and press Right Soft button. | HOTEL OPERATION<br>ARE YOU SURE?YES |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

### Hotel Related MMCs

| | |
|---|---|
| MMC 221 | EXTENSION TYPE |
| MMC 222 | FAX PAIR |
| MMC 513 | HOTEL TIMER |
| MMC 760 | ITEM COST TABLE |
| MMC 761 | TAX RATE SETUP |
| MMC 762 | ROOM COST RATE |

# [815] CUSTOMER DATABASE COPY

This enables the on-board customer database (SRAM) to be copied to the Smart Media card database (SMDB) and also allows the SMDB to be copied to the SRAM. A daily save can be programmed to automatically save the SRAM to the SMDB. This ensures that an up-to-date database is always available in case of a catastrophic failure. A daily save time of 00:00 means that no daily save is performed.

It is recommended that the SMDB is cleared before the SRAM is copied to it. When the SRAM is copied to the SMDB there is no interruption in service. If the SMDB is copied to the SRAM, the system will be reset to accept the new data.

SMDB (Smart Media card database)

| Option | Description |
|---|---|
| S:mm/dd/yy hh:mm | Indicates the time the database was saved to the SMDB |
| CLEAR SMDB | Clear SMDB |
| COPY TO SRAM | Copy SMDB to SRAM |

SRAM (MP on-board database)

| Option | Description |
|---|---|
| S:mm/dd/yy hh:mm | Indicates the time the SRAM was last saved |
| COPY TO SMDB | Copy SRAM to SMDB |
| DAILY SAVE hh:mm | The time the SRAM will be saved to the SMDB |


NOTE

A 16 or 32 MB Smart Media card must be installed in order to copy the SRAM to the SMDB.

## DEFAULT DATA

DAILY SAVE 00:00 (no daily save)

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 815.<br>Display shows: | CUST DBASE:SMDB<br>S:12/01/01 00:00 |
| If the Smart Media card is in use, the display shows: | CUST DBASE:SMDB<br>SMART IS BUSY |
| 2. Press Right Soft button to move cursor. | CUST DBASE:SMDB<br>S:12/01/01 00:00 |

3. Press Volume button to make selection and press Right Soft button to move cursor.

```
CUST DBASE:SMDB
CLEAR SMDB  :NO
```

4. Press Volume button to select YES or NO and press Right Soft button.

```
CUST DBASE:SMDB
CLEAR SMDB  :YES
```

5. Press Volume button to select YES or NO and press Right Soft button.

```
CUST DBASE:SMDB
ARE YOU SURE?NO
```

   If you select YES, the display shows.

```
CUST DBASE:SMDB
Cleared....
```

6. Press Volume button to make selection and press Right Soft button to move cursor.

```
CUST DBASE:SRAM
DAILY SAVE:00:00
```

7. Press Volume button to make selection and press Right Soft button to move cursor.

```
CUST DBASE:SRAM
DAILY SAVE:00:00
```

8. Input save time.
   OR
   Press Right Soft button to move cursor.

```
CUST DBASE:SRAM
DAILY SAVE:23:30
```

9. Press Volume button to make selection and press Right Soft button to move cursor.

```
CUST DBASE:SRAM
COPY TO SMDB:NO
```

10. Press Volume button to make selection and press Right Soft button to make changes and return to step 9.

```
CUST DBASE:SRAM
ARE YOU SURE?:YES
```

11. Press Transfer button to save and exit.
    OR
    Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [816] CONFERENCE GAIN

Adjusts the gain level for conference calls.


**Do not change the default levels in this MMC without the assistance of Technical Support.**

## DEFAULT DATA

YES

## ACTION

1. Press Transfer button and enter 816.
   Display shows:

   ```
   CONFERENCE GAIN
   USE DEFAULT : YES
   ```

2. Press Volume button to select YES or NO and press Right Soft button to move cursor.

   ```
   CONFERENCE GAIN
   USE DEFAULT : YES
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [818] PROGRAM DOWNLOAD

Change the system version by downloading the new version stored on the Smart Media card to the MP40 and TEPRI modules.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 818.<br>Display shows: | PGM DOWNLOAD<br>MCP:MPE08301.PGM |
| 2. Press Volume button to select program type and press Right Soft button to move cursor. | PGM DOWNLOAD<br>LP4:LP450824.PGM |
| 3. Press chassis number (1~3) to download program | LP40 PGM:C1<br>DOWNLOAD NOW?NO |
| 4. Press Volume button to select YES and press Right Soft button to move cursor. | LP40 PGM:C1<br>DOWNLOAD NOW?YES |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [819] SMART MEDIA FILE CONTROL

Displays the size (in bytes) of various system program files on the Smart Media card. Also allows deletion of a file by selecting the file and pressing the Hold button on the phone. Files included in Smart Media are described below:

| File Name | Description |
|---|---|
| STARTUP.INI | If you designate an MP40 program in MMC 818, related data are saved in this file. This file is initially not included but is created when the above programs are selected at MMC 818. |
| MPExxxxx.PGM | Program for MP40 module. Since the MP40 program is not installed on the MP40 module itself, at least one MP40 program must be included in Smart Media to start the system |
| LP4xxxxx.PGM | LP40 program. The LP40 program is installed on the module itself. The one included in Smart Media is used for software version upgrade. |
| PR2xxxxx.PGM | TEPRI2 program. The TEPRI2 program is installed on the module itself. The one included in Smart Media is used for software version upgrade |
| PRIxxxxx.PGM | TEPRI program. The TEPRI program is installed on the module itself. The one included in Smart Media is used for software version upgrade. |
| DATABASE.ENT | This file is created in Smart Media when DB is saved to SMDB by MMC 815. Initially not included, this file is created only when SMDB is created by MMC 815. |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 819.
   Display shows:

   ```
   STARTUP.INI
   sz:512 bytes
   ```

2. Press Volume button to select program type and press Hold button to move cursor to delete option

   ```
   MPE08301.PGM
   sz:14418432 bytes
   ```

3. Dial 1 for YES (delete) or 0 for NO.
   OR
   Press Volume button to make selection and press Right Soft button (cursor returns to step 2).

   ```
   MPE08301.PGM
   DELETE FILE? NO
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [820] ASSIGN SYSTEM LINK ID

This MMC is used to assign the system link ID for PRI and VoIP networking. Up to 100 link IDs can be entered including SELF ID. In addition, each Link ID is associated with the IP address and IP address type of the MP40 module for that system.

| Option | Description |
|---|---|
| LINK ID | System ID for networking feature. |
| SIGNAL G/W | System IP address for VoIP networking |
| IP TYPE | System IP address type for VoIP networking. SELF system IP address type determines 'SYSTEM IP TYPE' in MMC 830. |

## CONDITIONS

'SELF' represents self-node, and must be set to use the networking function. Items other than 'SELF' are used for station numbers and can be omitted.

## DEFAULT DATA

NONE

## ACTION / DISPLAY

1. Press Transfer button and enter 820.
   Display shows:

   ```
   SELF :LINK ID
   ```

2. Enter SELF link ID via dial keypad and press Right Soft button.

   ```
   SELF :LINK ID
   11
   ```

3. Press Volume button to select other link ID and press Right Soft button to mover cursor.

   ```
   SYS01:LINK ID
   ```

4. Enter other link ID via dial keypad and press Right Soft button.

   ```
   SYS01:LINK ID
   22
   ```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 821 | ASSIGN NETWORK TRUNK |
| MMC 823 | ASSIGN NETWORK COS |
| MMC 824 | NETWORK DIAL TRANSLATION |
| MMC 830 | ETHERNET PARAMETERS |

# [821] ASSIGN NETWORK TRUNK

Assigns the Q-signalling PRI trunk for networking. It is assigned data on a per-TEPRI module basis.

## DEFAULT DATA

NORMAL

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 821.<br>Display shows: | [701] Q-SIG TRK<br>NORMAL |
| 2. Enter first trunk number of PRI module.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [701] Q-SIG TRK<br>NORMAL |
| 3. Enter 0 for NORMAL, or 1 for Q-SIGNALLING.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and move cursor. | [701] Q-SIG TRK<br>Q-SIGNALLING |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [822] VIRTUAL EXTENSION TYPE

Assigns the virtual extension port type.

| No. | Port Type | Description |
|---|---|---|
| 00 | SLT | Emulates SLI port |
| 01 | 24 BTN SET | 24 button phone |
| 02 | 12 BTN SET | 12 button phone |
| 03 | 7 BTN SET | 7 button phone |
| 04 | 6 BTN SET | 6 button phone |
| 05 | 28 BTN SET | 28 button phone |
| 06 | 18 BTN SET | 18 button phone |
| 07 | 8 BTN SET | 8 button phone |
| 08 | 38 BTN SET | 38 button phone |
| 09 | 21 BTN SET | 21 button phone |
| 10 | 14 BTN SET | 14 button phone |
| 11 | LARGE SET | Large LCD phone |
| 12 | 7 BTN LCD | 7 button LCD phone |
| 13 | 0 BTN LCD | 0 button LCD phone |
| 14 | NONE | Not used |

## DEFAULT DATA

3501-3522 : SLT
3401-3440: 21 BTN SET

## ACTION

1. Press Transfer button and enter 822.
   Display shows:

   DISPLAY:
   ```
   [3501]PORT TYPE
   SLT
   ```

2. Enter virtual extension number.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [3501] PORT TYPE
   SLT
   ```

   OR
   Select all ports

   DISPLAY:
   ```
   [ALL] PORT TYPE
   SLT
   ```

3. Enter virtual extension type
   OR
   Press Volume button to make selection and press Right Soft button to save and move cursor.

   DISPLAY:
   ```
   [3501] PORT TYPE
   SLT
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [823] ASSIGN NETWORK COS

Assigns the class of service for networking.

| No | Option | Description | Default |
|---|---|---|---|
| 01 | CALL OFFER | Call Offer | Y |
| 04 | CC SIG CONN | CC Retention of Signal Connection | Y |
| 05 | CC SVC RETN | CC Service Retention | Y |
| 06 | CCBS | Call Completion to Busy Subscriber | N |
| 07 | CCNR | Call Completion on No Reply | N |
| 08 | CFB | Call Forward Busy | Y |
| 09 | CFNR | Call Forward No Reply | Y |
| 10 | CFU | Call Forward Unconditional | Y |
| 11 | CI | Call Intrusion | N |
| 12 | CI CAPABIL | Intrusion Capability Level (1~3) | 2 |
| 14 | CI PROTECT | Intrusion Protection Level (0~3) | 2 |
| 23 | CONP LEVEL | CONP Level (0: none, 1: Alert, 2: Busy, 3: Both) | 3 |
| 26 | CT RE-ROUTE | Transfer By Rerouting | N |
| 27 | DND TONE | DND Announcement | N |
| 28 | DNDO | Do Not Disturb Override | Y |
| 29 | DNDO CAPABL | DNDO Capability Level (0~3) | 2 |
| 30 | DNDO PROTEC | DNDO Protection Level (1~3) | 2 |
| 31 | PAGE | PAGE | Y |
| 32 | PATH REPL. | Path Replacement | Y |
| 33 | PATH RETEN | Path Retention | N |

## CONDITIONS

NONE

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 823.<br>Display shows: | NETWORK COS (01)<br>01:CALL OFFER :Y |
| 2. Dial the class of service number(01-30).<br>OR<br>Press Volume button to select and press<br>Right Soft button to move cursor. | NETWORK COS (02)<br>01:CALL OFFER :Y |
| 3. Dial the feature number.<br>OR<br>Press Volume button to select and press<br>Right Soft button to move cursor. | NETWORK COS (02)<br>03:CC PATH RSV:Y |
| 4. Enter 0 for NO, or 1 for YES.<br>OR<br>Press Volume button to select YES or NO and<br>Press Right Soft button to store data. | NETWORK COS (01)<br>03:CC PATH RSV:N |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 301 ASSIGN STATION COS

# [824] NETWORK DIAL TRANSLATION

Assigns the digit translation table used for networking. Generally, under networking conditions, you must dial the node ID and extension number to call the another node extension. In this MMC, the system provides a simple digit translation so that the user need only dial the extension number to call the station on the other node. The access digit needs to be programmed in MMC 724 ('NTWK LCR DIAL NO.' option) first. The system allows 96 entries for network dial translation.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 824.<br>Display shows: | 01:601→<br>SIZE:0 MAX:00 |
| 2. Dial the entry number.<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | 01:601→_<br>SIZE:0 MAX:00 |
| 3. Enter digit string for access to node (max. 8 digits) and press Right Soft button to move cursor. | 01:601→60201<br>SIZE:0 MAX:00 |
| 4. Enter number of digits user will dial (e.g. 3 for 3-digit extension).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | 01:601→60201<br>SIZE:3 MAX:00 |
| 5. Enter max. number of digits system will dial<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | 01:601→60201<br>SIZE:3 MAX:08 |
| 6. Enter YES/NO to display other node extension in internal extension number format.<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | 01:601→60201<br>DISP:N MBX:N |

7. Enter YES/NO to assign Mailbox to remote extension automatically.
   OR
   Press Volume button to select and press Right Soft button to move cursor.

```
01:601→60201
DISP:Y  MBX:N
```

8. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 710 | LCR DIGIT TABLE |
| MMC 724 | DIAL NUMBERING PLAN |
| MMC 820 | ASSIGN SYSTEM LINK ID |

# [825] ASSIGN NETWORKING OPTIONS

Assigns the options used for networking.

| No | Option | Description |
|---|---|---|
| 0 | ADD NUMBER TO NAME | Assign to includes the extension number in the name field of Q-SIG standard message. |
| 1 | USE REMOTE VM | Assign to use SVMi on remote system. |
| 2 | REMOTE VM NUMBER | Assign to access number of remote SVMi when the Remote VM is used. |
| 3 | REMOTE CID NUMB | Assign to use delete node number when CID number send to SVMi. |
| 4 | USE REMOTE ATTN | Use Attendant on remote system (RING 1-6, Y/N) |
| 5 | REMOTE ATTN NUMB | Access number of remote Attendant when the remote Attendant is used (RING 1-6) |
| 6 | SPNET DIGIT SEND | Specify by which method dialled digits are sent across the network. |

## DEFAULT DATA

ADD NUMB TO NAME: YES
USE REMOTE VM: NO
REMOTE VM NUMBER: NONE
REMOTE CID NUMB: YES
USE REMOTE ATTN: NO
REMOTE ATTN NUMB: NONE
SPNET DIGIT SEND: MGI SIGNALLING

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 825.<br>Display shows: | ADD NUMB TO NAME<br>YES |
| 2. Dial the option number.<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | USE REMOTE VM<br>NO |
| 3. Dial 1 for YES or 0 for NO.<br>OR<br>Press Volume button to select YES/NO and press Right Soft button to mover cursor. | USE REMOTE VM<br>YES |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [826] ASSIGN SYSTEM REFERENCE CLOCK

The system clock may be synchronized with an external clock source from the TEPRI or BRI module, or it can use the internal clock source.

This MMC can assign the system clock source priority when the external clock source is used.

## DEFAULT DATA

PRIORITY 1: C1-S0
PRIORITY 2: C1-S1
PRIORITY 3: C1-S3
PRIORITY 4: C1-S4
PRIORITY 5: C1-S5
PRIORITY 6: C1-S6
PRIORITY 7: C1-S7
PRIORITY 8: C1-S8
PRIORITY 9: C1-S9

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 826.<br>Display shows: | REFERENCE CLOCK<br>PRIORITY 1:C1-S3 |
| 2. Dial the priority number (1-6).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | REFERENCE CLOCK<br>PRIORITY 1:C1-S3 |
| 3. Dial the priority data.<br>OR<br>Press Volume button to select and Press Right Soft button to store. | REFERENCE CLOCK<br>PRIORITY 1:C1-S3 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [827] CRM DSP MODE SELECT

The CRM module has two DSPs and each DSP is operated in one of the modes DTMFR, R2MFC, or CID. This MMC assigns the DSP mode.

## CONDITION

A CRM module must be mounted on the LP40 module. If there is no CRM module, 'NO CRM' is displayed.

## DEFAULT DATA

DSP1: DTMFR, DSP2:DTMFR

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 827.<br>Display shows: | C:1-LOC:1-DSP:1<br>DTMFR →DTMFR |
| 2. Dial the chassis number (1-3).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | C:1-LOC:1-DSP:1<br>DTMFR →DTMFR |
| 3. Dial the LOC number (1-2).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | C:1-LOC:1-DSP:1<br>DTMFR →DTMFR |
| 4. Dial the DSP number (1-2).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | C:1-LOC:1-DSP:1<br>DTMFR →DTMFR |
| 5. Dial digit to select DSP mode (0-2).<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | C:1-LOC:1-DSP:1<br>DTMFR →DTMFR |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [829] LAN PRINTER PARAMETERS

This program sets the various parameters required for printing to a LAN-connected device. The data listed below can be printed.

01. SMDR
02. UCD REPORT
03. TRAFFIC REPORT
04. ALARM REPORT
05. UCD VIEW
06. PERIODIC UCD
07. HOTEL REPORT
08. PMS

The items that are set in this program are:

| No | Option | Default | Description |
|---|---|---|---|
| 00 | DATA TYPE | | Type of data to be displayed |
| 01 | CURR STATUS | OFF | Current status of the LAN printer |
| 02 | EMPTY BUFF | NO | Prints all data left in the buffer |
| 03 | UPDATE LAN | NO | Applies modified values set in this MMC |
| 04 | DESTINATION | OFF | Data transmit destination (Off, Printer, PC, Both) |
| 05 | PRINTER IP | 200.1.1.1 | The IP address of the LAN printer |
| 06 | PRINTER TCP | 10010 | The TCP port of the printer |
| 07 | LAN TCP | 10020 | LAN TCP port |
| 08 | RETRY COUNT | 03 | Re-transmit attempt count (00~10) |
| 09 | RETRY WAIT | 010 sec | Wait time for re-transmit (005~250 sec) |
| 10 | PJL ENABLE | FALSE | Sets PJL (0. FALSE, 1. TRUE) |
| 11 | LANGUAGE | RAW | Printer language (0. RAW, 1. PCL, 2. PS) |
| 12 | PAPER SIZE | A4 | Paper size (0. A4, 1. LETTER) |
| 13 | FONT TYPE | COURIER | Font type (0.COURIER, 1.TIMES NEW ROMAN) |
| 14 | DUPLEX ENAB | FALSE | Sets duplex (0. FALSE, 1. TRUE) |
| 15 | ORIENTATION | PORTRAIT | Orientation (0. PORTRAIT, 1. LANDSCAPE) |
| 16 | PRINT TRAY | DEFAULT | Printer tray (0.Default, 1.Tray1, 2.Tray2, 3.Manual) |
| 17 | RESOLUTION | 300 | Resolution (0.300, 1.600) |
| 18 | LINE/PAGE | 60 | Lines per page |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 829.<br>Display shows: | [01] DATA TYPE<br>SMDR |
| 2. Enter type of data to be printed.<br>OR<br>Press Volume button to select the type and press the Right Soft button to move the cursor. | [02] DATA TYPE<br>UCD REPORT |
| 3. Enter the item number<br>OR<br>Press Volume button to select the item and press the Right Soft button to move the cursor. | [02] PRINTER IP<br>200. 1. 1. 1 |
| 4. Select the data.<br>OR<br>Press Volume to select the data and press Right Soft button to move the cursor. | [02] PRINTER IP<br>168.219. 83.101 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [830] ETHERNET PARAMETERS

This MMC provides a means to configure the Internet Protocol (IP) addressing of the MP40 module.

| No | Parameter | Description |
|---|---|---|
| 00 | SYSTEM IP ADDR | Specifies the IP address for the MP40 module. |
| 01 | SYSTEM GATEWAY | Specifies the designated gateway IP address used for contacting IP devices beyond the local network subnet. |
| 02 | SYSTEM NET MASK | Specifies the IP subnet mask.<br>This parameter is used by the system to calculate the range of IP devices (subnet) that are within 'direct reach' of the MP40 (without having to go through the designated network IP gateway). |
| 03 | SYSTEM RESET | Prompt to reset system MP40 when system IP address is changed. This reset is same as FAST RESTART in MMC 811. |
| 04 | SYSTEM IP TYPE | Specifies if the system will be routing data over a public or private network. |
| 05 | SYSTEM PUBLIC IP | The MP40 will originate communications to IP phones and VoIP connections outside the local network using this IP address. Communications to/from this IP will require involvement of the MGI module. The system identifies communications to/from this address as 'public'. This allows devices, on remote networks/subnets, to establish communications with the system, without exposing the LAN. See 'SYSTEM IP TYPE'. |
| 07 | SYSTEM DHCP MODE | Specifies if the MP40 module is automatically assigned an IP address from the Data Server. |
| 08 | SYSTEM MAC ADDR | For reference, and cannot be changed. The unique hardware (MAC) address of the MP40 module. |
| 09 | SYSTEM IP VERS | Specify the system IP address is IPv4/IPv6 |
| 10 | DATA SERVER IP | IP address of Data Server |
| 11 | FEATURE SVR IP | IP address of separate Feature Server |
| 12 | PCMMC ADDRESS | When the system wants to connect to PC programming, it will be sent to this IP address for a connection message. (Reserved for future use.) |
| 13 | SM MANAGER IP | Not used. |
| 14 | CTI SERVER ADDR | IP address of CTI Server |
| 17 | NEWS ADDRESS | IP address of News Server |


NOTE

**ETHERNET PARAMETERS**

- The first three parameters: SYSTEM IP ADDR, SYSTEM GATEWAY, and SYSTEM NET MASK are stored separately from the main system database and thus will not be defaulted when MMC811 'CLEAR MEMORY' is performed. Furthermore, any changes to these parameters will not be applied until the MP40 is reset.
- When changing any IP address/value, three digits must be entered for each (octet) field. For example 192.168.1.10 should be entered as: 192 168 001 010.

## CONDITIONS

- This MMC must be used if there are ITP phones and/or MGI modules on the system.
- After changing Ethernet parameters, restart the system to apply the new settings.

## DEFAULT DATA

SYSTEM IP ADDR: 165.213.97.185
SYSTEM GATEWAY: 165.213.97.1
SYSTEM NET MASK: 255.255.255.0
SYSTEM RESET: NO
SYSTEM IP TYPE: PRIVATE IP ONLY
SYSTEM PUBLIC IP: 1.1.1.1
SYSTEM DHCP MODE: STATIC
SYSTEM MAC ADDR: CARD DEPENDENT
DATA SERVER IP: 0.0.0.0
FEATURE SVR IP: 0.0.0.0
PCMMC ADDRESS: 168.219.1.101
SM MANAGER IP: 0.0.0.0
CTI SERVER ADDR: 0.0.0.0
NEWS ADDR: 0.0.0.0

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 830.<br>Display shows the system IP address. | SYSTEM IP ADDR<br>165.213. 97.185 |
| 2. Press Volume button to make selection and<br>Press Right Soft button to move cursor. | SYSTEM IP ADDR<br>165.213. 97.185 |
| 3. Using the keypad, enter 3-digit IP numbers<br>(e.g. 192 168 001 010 for 192.168.1.10).<br>Cursor will return to step 1 upon completion<br>of IP address entry. | SYSTEM IP ADDR<br>192.168.001.010 |
| 4. Press Volume button to make selection and<br>Press Right Soft button to move cursor. | SYSTEM GATEWAY<br>165.213. 97.  1 |
| 5. Using the keypad, enter 3-digit IP numbers<br>(e.g. 192 168 001 001 for 192.168.1.1)<br>Cursor will return to this step on completion<br>of system gateway entry. | SYSTEM GATEWAY<br>192.168.001.001 |
| 6. Press Volume button to make selection and<br>press Right Soft button to move cursor. | SYSTEM RESTART<br>ARE YOU SURE? NO |
| 7. Press Volume button to make selection and<br>press Right Soft button to store and move cursor. | SYSTEM RESTART<br>ARE YOU SURE? NO |
| 8. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next<br>MMC. | |

## RELATED ITEMS

NONE

# [831] MGI PARAMETERS

This MMC provides a means to configure the Internet Protocol (IP) addressing of the MGI module(s) in the system.

| No | Parameter | Description |
|---|---|---|
| 0 | IP ADDRESS | Specifies the IP address for the MGI module. |
| 1 | GATEWAY | Specifies the designated IP gateway address used for contacting IP devices beyond the local subnet. |
| 2 | SUB MASK | Specifies the IP subnet mask. This parameter is used by the system to calculate the range of IP devices (subnet) that are within 'direct reach' of the MGI (without having to go through the designated network IP gateway). |
| 3 | IP TYPE | Specifies if the system will be routing data over a public or private network. |
| 4 | PUBLIC IP | The MGI will originate communications to IP phones and VoIP connections outside the local network using this IP address. If this IP address is set to 0.0.0.0, 255.255.255.255 or the default value, the MGI module uses private IP only. See System IP Type in MMC 830. |
| 5 | PUB PORT | Public Port |
| 6 | VERSION | No entry required. Used to indicate revision of MGI software. |
| 8 | CARD RESET | Reboots MGI module. |
| 9 | IP VERSION | Specifies MGI IP version is IPv4 / IPv6. |

NOTE

**MGI PARAMETERS**

- IP ADDRESS, GATEWAY, and SUB MASK—any changes to these parameters will not be applied until the MGI module is reset.
- When changing any IP address/value, three digits must be entered for each (oc-tet) field. For example, 192.168.1.10 should be entered as 192 168 001 010.

## CONDITIONS

This MMC cannot be accessed unless there is an MGI module installed in the system.

## DEFAULT DATA

IP ADDRESS: 1.1.1.1
GATEWAY: 1.1.1.1
SUB MASK: 255.255.255.0
IP TYPE: PRIVATE IP ONLY
PUBLIC IP: 1.1.1.1
PUB PORT: 00000
VERSION: V4
CARD RESET: NO
IP VERSION: IPv4

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 831.<br>Display shows the first MGI module. | [3801] IP ADDRESS<br>168.219. 76.101 |
| 2. Enter MGI number.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [3801] IP ADDRESS<br>168.219. 76.101 |
| 3. Enter MGI parameter number.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [3801] IP ADDRESS<br>168.219. 76.101 |
| 4. Enter MGI parameter.<br>OR<br>Press Right Soft button to move cursor. | [3801] IP ADDRESS<br>165. 10.  1.100 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [832] VoIP ACCESS CODE

Provides a means to apply the Internet Protocol (IP) address to the VoIP gateway. This MMC also assigns the number of channels that can be used for IP faxes.

**TABLE (00~62)**: Outbound or Inbound table used for specific access codes. Usually when the MP40 module is used as a VoIP gateway, the Outbound table is used. The Inbound table is used to determine the number of digits to receive before processing the call. Each table has 63 entries (00~62).

| No | Option | Description |
|---|---|---|
| 0 | ACCESS DGT | This is the access code that is used once the VoIP gateway is accessed; this directs a call based on the routing tables used. An access code table then references an access code and correlates an IP address to the access code for routing. A maximum of eight digits are available. |
| 1 | DGT LENGTH | This field requests the number of digits that are expected to be received to make up the whole access code. |
| 2 | DEL.LENGTH | This is the number of digits to delete after receiving the access code. If no digits are deleted the access code will be sent as part of the call to the destination to continue routing. |
| 3 | INSERT DGT | Digit(s) to insert for routing at the destination. This can be used when different numbering plans exist or if a dial 9 access is to be inserted in the dialled digits. |
| 4 | IP TABLE 1 | This is the first table referenced for routing the access code to an IP address. The system has 64 IP tables (00~63) with 16 entries (00~15) in each table. See MMC 833. |
| 6 | IP START | This entry indicates where in a table to start looking for an IP code to associate with the access code. This can be used to manage where to start looking for an IP address in high traffic VoIP gateway applications. For example: If IP address routing to the desired destination is known to be in the last seven entries of a table, the IP START location would be 8. IP address searching would start at entry 8. |
| 7 | GK USE | This parameter determines whether a H.323 Gatekeeper will be utilized to establish this connection. |

## DEFAULT DATA

ACCESS DGT: 00~09 (digits 0~9), 10~62 NONE
DGT LENGTH: 1
DEL.LENGTH: 1
INSERT DGT: NONE
IP TABLE 1: 00
IP START: NONE
GK USE: NO

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 832.<br>Display shows the outbound and first access code. | (O:00)ACCESS DGT<br>0 |
| 2. Enter 0 for O (outbound) or 1 for I (inbound) code table.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | (O:00)ACCESS DGT<br>0 |
| 3. Enter access code table number (00-62) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | (O:01)ACCESS DGT<br>1 |
| 4. Enter access code item (0-6) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | (O:01)ACCESS DGT<br>1 |
| 5. Enter access code data via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and move cursor. | (O:01)ACCESS DGT<br>840 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 833 | VOIP IP TABLE |
| MMC 834 | H.323 OPTIONS |
| MMC 836 | H.323 GATEKEEPER OPTIONS |
| MMC 837 | SIP OPTIONS |

# [833] VoIP IP TABLE

This MMC provides the IP addresses in tables pointed to by the VoIP code entry (MMC 832). There are 63 tables with up to 16 entries each. The destination IP address is required to route dialled digits based on the access code and digits dialled. The IP entry field is divided into 4 sections allowing modification of separate IP address fields.


NOTE

When changing any IP address/value, three digits must be entered for each (octet) field. For example, 192.168.1.10 should be entered as 192 168 001 010

## DEFAULT DATA

TB(00) ENTRY(00): MMC 830 SYSTEM IP ADDR
ALL OTHERS: EMPTY

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 833.<br>Display shows the first table number. | TB(00) ENTRY (00)<br>0. 0. 0. 0 |
| 2. Enter table number (00-62) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TB(00) ENTRY (00)<br>0. 0. 0. 0 |
| 3. Enter entry number (00-15) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | TB(00) ENTRY (00)<br>0. 0. 0. 0 |
| 4. Enter IP address via dial keypad.<br>Cursor will be return step 3. | TB(00) ENTRY (00)<br>165.213. 87.110 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 830 | ETHERNET PARAMETERS |
| MMC 832 | VOIP ACCESS CODE |
| MMC 834 | H.323 OPTIONS |
| MMC 837 | SIP OPTIONS |
| MMC 838 | PRIVATE IP ADDRESSES |

# [834] H.323 OPTIONS

This MMC provides various VoIP support options. The options set in this MMC apply system wide.

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | GATEWAY CALL ID | Numeric identifier for system (up to 12 digits). | 1234 |
| 01 | H.323 FAST SETUP | Enables or disables the H.323 Fast Start call setup method. | ENABLE |
| 02 | CALLER ID TYPE | This option controls the calling party identification type. There are 3 possible selections :<br>0 GWID: shows the gateway call ID.<br>1 ANI: shows the calling station number<br>2 IP: shows the calling H.323 gateway IP address. | ANI |
| 06 | TUNNELING | Enables or disables the need for additional channels using H.245 signalling. Tunnelling allows use of the H.245 signal channel with the Q.931 channel. | ENABLE |
| 07 | DEFAULT DIL NO | This allows programming of the default direct-in-line number when digits are missing or incorrect on an inbound call. | 500 |
| 11 | CODEC AUTO NEGO | Enables or disables Auto CODEC Negotiation when the MGI is used as an H.323 gateway. | ON |
| 14 | SIGNAL PORT | Indicate the port number for H.323 signalling and sets a range of numbers allowed by firewall equipment. The common and default IP path or port used is 10000. | 10000 |
| 17 | SEND CLIP TABLE | Refers to SEND CLI NUMBER (MMC 323), which provides calling party identification when using the MGI as a H.323 gateway. This provides station ID of the calling station. A single-digit value corresponding with the desired table in MMC 323 should be entered here. This is only used when MMC 405 value is null. | 1 |
| 18 | INCOMING MODE | This option selects how incoming calls are routed when the MGI is used as a H.323 gateway.<br>0 FOLLOW TRUNK RING: Follows MMC 406<br>1 FOLLOW DID TRANS: Follows MMC 714<br>2 FOLLOW INCOM DGT: Follows MMC 724 | FOLLOW DID TRANS |
| 19 | ALLOW GW CHECK | When using a gatekeeper, this permits the H.323 gateway to check for gatekeeper presence. | DISABLE |
| 20 | CLIR WITH NUMBER | When this option is enabled, the CLIP number is sent to the network even if the CLIP restriction flag is set. | DISABLE |
| 21 | USE OVERLAP DIAL | Enables use of overlap dialling | ENBLOC |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 834. Display shows the first option. | GATEWAY CALL ID<br>1234 |
| 2. Enter H.323 option number (00-20) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | H.323 FAST SETUP<br>DISABLE |
| 3. Enter H.323 option data via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | H.323 FAST SETUP<br>ENABLE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [835] MGI DSP OPTIONS

This MMC provides various MGI DSP options for both MGI and MGI64 modules.

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | CODEC-FRAME | Selects which audio CODEC compression will be used and the transmission interval time of VoIP packets generated by the MGI module. MGI module supports G.729A(8 K), G.729(8 K), G.711(64 K), and G.723.1(5.3~6.4K). | G.729A – 40 Ms |
| 01 | ECHO CANCEL | Enables or disables echo cancellation. This function removes the echo that is generated by voice reflection and packet delay. | ENABLE |
| 02 | SILENCE SUP | This parameter determines whether silence suppression is used. This prevents transmission during the silence period of a call, and conserves bandwidth when enabled. | DISABLE |
| 03 | IN FILTER | This option selects input filtering of the DSP. This should always be set to ENABLE. | ENABLE |
| 04 | OUT FILTER | This option selects output filtering of the DSP. This should always be set to ENABLE. | ENABLE |
| 05 | INPUT GAIN | PCM input gain value of DSP. The range is-31 dB~32 dB(0~63).<br>This sets the quality of PCM voice from the VoIP DSP to the site. Default is 32(0 dB). | 32 |
| 06 | VOICE VOL | This value selects the voice volume. The range is -31 dB~31 dB (0~63). | 32 (0 dB). |
| 08 | JITTER OPT | This is a scale value that introduces an intentional buffer (delay) for the transmission of VoIP packets generated by the MGI module. This value determines whether the focus is on packet loss or packet delay.<br>The range is 00~12. | 4 |

| No | Parameter | Description | Default |
|---|---|---|---|
| 09 | MIN JITTER | Decides the minimum time to consider delay for jitter adjustment.<br>The range is 010~300 ms | 30 ms |
| 10 | MAX JITTER | Decides the maximum time to consider delay for jitter adjustment.<br>The range is 010-300 ms. | 150 ms |
| 11 | FAX ECM | This option selects retry of Fax-over-IP if errors are detected. | ENABLE |
| 12 | MAX FAX CNT | This is the maximum number of channels that can be simultaneously used for Fax-over-IP. The range is 00~16. | 2 |
| 13 | DTMF TYPE | There are two types of DTMF transmission: INBAND, which is industry standard (H.245) type DTMF transport, and OUTBAND which is a Samsung proprietary method. | OUTBAND |
| 14 | TOS FIELD | An 8-bit binary value that will be used by external routers, switches, etc, (that optionally support TOS-bit prioritization) to identify the transport-priority value of data packets generated by the MGI module. This value can be left at the default value (00000) if your network infrastructure does not support this method of band-width management. | All bits 0 |
| 15 | FAX RETRY | This option selects retry count of Fax-over-IP if errors are detected. The range is 0~4 (0 means no retry). | 3 |
| 16 | RTP CHK TM | This options selects the interval time for sending RTCP. | 5 SEC |
| 17 | USE T38 711 | If use T38 FAX, specifies 711 Codec use | Enable |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 835.<br>Display shows the first option. | MGI:CODEC-FRAME<br>G.729A –40 MS |
| 2. Press Volume button to select MGI and<br>press Right Soft button to move cursor. | MGI:CODEC-FRAME<br>G.729A –40 MS |
| 3. Enter MGI DSP parameter via dial keypad.<br>OR<br>Press Volume button to make selection and<br>press Right Soft button to move cursor. | MGI:CODEC-FRAME<br>G.729A –40 MS |
| 4. Enter MGI DSP parameter.<br>OR<br>Press Volume button to make selection and<br>press Right Soft button to save and return to step 3. | MGI:CODEC-FRAME<br>G.729A –20 MS |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next<br>MMC. | |

## RELATED ITEMS

MMC 831 MGI PARAMETERS

# [836] H.323 GK OPTIONS

Provides a means to set the H.323 gatekeeper parameters for an optional, external industry-standard H.323 network gatekeeper, using Registration, Admissions and Status signalling (RAS). The settings apply system wide.


NOTE

When changing any IP address/value, three digits must be entered for each (octet) field. For example, 192.168.1.10 should be entered as 192 168 001 010

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | GK CONNECTION | This enables the H.323 call to connect to a gatekeeper. | DISABLE |
| 01 | GK ROUTING | This enables routing of calls through a gatekeeper. | DISABLE |
| 02 | GK IP ADDRESS | This is the gatekeeper's IP address. | 0.0.0.0 |
| 03 | GK NAME | This is the alphanumeric identifier of the gatekeeper. (Up to 16 characters.) | 'Gatekeeper' |
| 04 | ALTER GK IP ADDR | This provides an alternate gatekeeper address. | 0.0.0.0 |
| 05 | H.323 GATEWAY ID | This is the H.323 identifier used by the MGI when registering with the gatekeeper. (Up to 32 characters.) | 'OfficeServ' |
| 06 | E.164 GATEWAY NO | This is the E.164 identifier used by the H.323 trunk when registering with the gatekeeper. (Up to 16 digits long.) | 1234 |
| 07 | GK KEEP ALIVE | This is the timer that the MGI uses to acknowledge the presence of the gatekeeper. The range is 000~999 seconds. | 0 SEC |
| 08 | GK DOWN ROUTE | This provides an alternate route if the primary gatekeeper is down. Selections are PSTN or ALTER GK. | PSTN |
| 09 | GK RAS TYPE | Select if AUTO or MANUAL, depending on your gatekeeper's capabilities. | AUTO |
| 10 | URQ REASON MODE | Select ON or OFF for use of Un-register Request RAS (URQ) messages. | ON |
| 12 | RRQ FAIL TIME | Programs the time frame to re-send Registration Request RAS (RRQ) messages to a gatekeeper. The range is 1~99. | 30 seconds |
| 13 | GRQ SEND | Select ON or OFF for use of Gatekeeper RAS Request (GRQ) messages. | OFF |
| 14 | USE MULTI E.164 | When this option is set to ENABLE, the E.164 identifier can be assigned. | DISABLE |

| No | Parameter | Description | Default |
|---|---|---|---|
| 15 | E.164 LISTS | This is the E.164 identifier used by the H.323 trunk when registering with the gatekeeper. There is a maximum 32 E.164 identifier lists with a digit string length of 16 digits. | NONE |
| 16 | GK REGISTERED | Display the status of registration to the Gatekeeper. | NO |

## DEFAULT DATA

SEE DESCRIPTION

## ACTION

1. Press Transfer button and enter 836.
   Display shows the first available option.

2. Enter H.323 GK option via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

3. Enter H.323 GK option data.
   OR
   Press Volume button to make selection and press Right Soft button to save and return step 3.

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## DISPLAY

```
GK CONNECTION
DISABLE
```

```
GK ROUTING
DISABLE
```

```
GK ROUTING
ENABLE
```

## RELATED ITEMS

MMC 834 H.323 OPTIONS

# [837] SIP OPTIONS

This MMC permits the adjustments of optional Session Initiation Protocol (SIP) trunk parameters. The MP40 supports SIP and H.323 on a per-call-per-port basis. The settings are system wide.


NOTE

When changing any IP address/value, three digits must be entered for each (octet) field. For example, 192.168.1.10 should be entered as 192 168 001 010.

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | GATEWAY CALL ID | Numeric system identifier (up to 12 digits). | '1234' |
| 01 | CALLER ID TYPE | This option controls the calling party identification type. There are 3 possible selections:<br>0 GWID: shows the gateway call ID.<br>1 ANI: shows the calling station number (default)<br>2 IP: shows the calling H.323 gateway IP address. | ANI |
| 05 | DEFAULT DIL NO | This allows programming of the default direct-in-line number when digits are missing or incorrect on an in-bound call. | 5000 |
| 06 | UDP PORT: TRUNK | Sets the UDP port used on a SIP trunk call. | 5060 |
| 07 | UDP PORT: PHONE | Sets the UDP port used on a SIP phone call. | 5070 |
| 09 | RE-TRANS. T1 TIME | The initial re-transmission time if there is no answer, based on the RFC2543 specification. The range is 0~9900 ms. | 500 ms |
| 10 | RE-TRANS. T2 TIME | The maximum re-transmission time if there is no answer, based on the RFC2543 specification. The range is 0~9900 ms. | 4000 ms |
| 11 | RE-TRANS. T4 TIME | The time the User Agent Server waits after receiving the ACK message. Based on the RFC2543 specification. The range is 0~9900 ms. | 5000 ms |
| 12 | GENERAL RING TM | The server retransmits the response for this length of time until the requested retransmission is received. For example, the wait time after sending 200 OK for INFO. The range is 0~99900 ms. | 5000 ms |
| 13 | INVITE LING TM | After the client sends ACK for the INVITE Final Response, the client cannot confirm if the server received the ACK message. The client waits for this length of time after sending ACK for the Final Response. The range is 0~99900 ms. | 5000 ms |

| No | Parameter | Description | Default |
|---|---|---|---|
| 14 | PROVISIONAL TIME | After receiving the Provision Response, the User Agent waits for this length of time until Timeout ends. The range is 0~999900 ms. | 180000 m |
| 15 | INV.NO RESP TIME | Before sending Cancel for the Invite Request, the User Agent waits for this length of time. The range is 0~99900 ms. | 5000 ms |
| 16 | GEN.NO RESP TIME | Before sending Cancel for General Request, the User Agent waits for this length of time. The range is 0~99900 ms. | 5000 ms |
| 17 | REQ.RETRY TIME | After sending General Request, the User Agent waits for the Final Response for this length of time. The range is 0~99900 ms. | 5000 ms |
| 18 | SIP SERVER ENABLE | Sets ENABLE or DISABLE to use an optional, external industry-standard SIP Server. | DISABLE |
| 20 | SIP SERVER IP | Sets SIP server IP address. | 0.0.0.0. |
| 28 | SIP SERVER PORT | Sets the port to use on the SIP Server. | 5060 |
| 29 | SIGNAL PORT | Indicates the port number for SIP signalling and sets a range of numbers allowed by firewall equipment. The common and default IP path or port used is 10000. | 10000 |
| 32 | SEND CLIP TABLE | Refers to SEND CLI NUMBER (MMC 323), which provides calling party identification when using the MGI as a SIP gateway.<br>This provides station ID of the calling station. A single-digit value corresponding to the desired table in MMC 323 should be entered here. This is only used when MMC 405 value is null. | 1 |
| 33 | INCOMING MODE | This option selects how incoming calls are routed when the MGI is used as a SIP gateway.<br>0 FOLLOW TRUNK RING: Follows MMC 406<br>1 FOLLOW DID TRANS: Follows MMC 714 (default)<br>2 FOLLOW INCOM DGT: Follows MMC 724 | FOLLOW DID TRANS |
| 34 | ALLOW GW CHECK | When using a gatekeeper, this permits the SIP gateway to check for gatekeeper presence. | DISABLE |
| 35 | REGIST T-GW NUM | System number when registering as a trunking gateway. | 4100 |
| 36 | REGIST S-GW NUM | System number when registering as a gateway for stations. | 4200 |
| 37 | CLIR WITH NUMBER | When this option is enabled, the CLIP number is sent to the network even if the CLIP restriction flag is set. | DISABLE |
| 38 | SIP REGISTERED | Display the status of registration to the SIP Server. | NO |

| | | | |
|---|---|---|---|
| 39 | GW SERVICE | When using SIP Server, if this option is ENABLE, then register by user and if DISABLE then register by system number | DISABLE |
| 40 | GW DOMAIN NAME | Domain name for authorization when using SIP Server | |
| 41 | GW USER ID | User ID for authorization when using SIP Server | |

## DEFAULT DATA

SEE DESCRIPTION

## ACTION

1. Press Transfer button and enter 834.
   Display shows the first option.

2. Enter SIP option number 00-38 (e.g. 01) via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

3. Enter SIP option data via dial keypad.
   OR
   Press Volume button to make selection and press Right Soft button to move cursor.

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## DISPLAY

```
GATEWAY CALL ID
1234
```

```
CALLER ID TYPE
ANI
```

```
CALLER ID TYPE
IP
```

## RELATED ITEMS

| | |
|---|---|
| MMC 323 | CALLING PARTY NUMBER |
| MMC 405 | TRUNK CO TEL NUMBER |
| MMC 306 | TRUNK RING ASSIGNMENT |
| MMC 714 | DID NUMBER AND NAME TRANSLATION |
| MMC 724 | DIAL NUMBERING PLAN |
| MMC 832 | VOIP ACCESS CODE |
| MMC 834 | H.323 OPTIONS |

# [838] PRIVATE IP ADDRESSES

This MMC is used to select which SYSTEM IP Address (PRIVATE or PUBLIC) is used to connect other devices via an H.323 or SIP trunk. The device which use the PRIVATE IP Address assigned in this MMC, the PRIVATE SYSTEM IP Address will be used to connect the device.


NOTE

When changing any IP address/value, three digits must be entered for each (octet) field. For example, 192.168.1.10 should be entered as 192 168 001 010.

## DEFAULT DATA

TABLE (80): 165.213.255.255
ALL OTHERS: 0.0.0.0

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 838.<br>Display shows the first table number. | PRIVATE IP (01)<br>0. 0. 0. 0 |
| 2. Enter table number (01-80) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | PRIVATE IP (01)<br>0. 0. 0. 0 |
| 3. Enter IP address via dial keypad.<br>Cursor will return to step 3. | PRIVATE IP (01)<br>165.213. 87.110 |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 830 | ETHERNET PARAMETERS |
| MMC 832 | VOIP ACCESS CODE |
| MMC 834 | H.323 OPTIONS |
| MMC 837 | SIP OPTIONS |

# [840] IP PHONE INFORMATION

This MMC provides a means to register IP phones with the OfficeServ 7400 system. During registration, the IP and MAC addresses are also registered. The User ID and Password must match the table entry in this MMC for the IP phone to be registered. The system default phone numbers are 3201~3299 and default User IDs match the default station numbers. The system default password is 1234. IP phones must be individually programmed with a User ID and Password in order to register with the system.

| No | Option | Description | Default |
|---|---|---|---|
| 00 | USER ID | This is the ID the IP phone must match to register with the OfficeServ 7400 system (alphanumeric). | First 99 IP phones are 3201~3299, others are EMPTY |
| 01 | USER PSWD | This is the password the IP phone must have to register with the OfficeServ 7400 system (alphanumeric). | 1234 |
| 02 | IP ADDR | This is the IP address of the IP phone when registered with the system. (Read only.) | 0.0.0.0. |
| 03 | MAC ADDR | This is MAC address of the IP phone when registered with the system. (Read only.) | FFFFFFFFFFFF |
| 04 | SIG PORT | This is the IP UDP port of the IP phone when registered with the system. (Read only.) This information will be needed when traversing NAT routers, firewalls, etc. | 6000 |
| 05 | VOICE PORT | This is the IP RTP port of the IP phone when registered with the system. (Read only.) This information will be needed when traversing NAT routers, firewalls, etc. | 9000 |
| 06 | IP TYPE | This is the type of IP network used: PRIVATE or PUBLIC. | PRIVATE |
| 07 | DSP TYPE | This selects which CODEC this phone's DSP will use. G.729A (low bandwidth) or G.711(high bandwidth). This data uses IP phone to IP phone connection only; others follow MGI CODEC type. | G.729A |
| 08 | PHONE TYPE | This the type of IP phone used, SAMSUNG or SIP (future). Use SAMSUNG. | SAMSUNG |
| 09 | REGIST CLR | This is used to clear the registration of a particular IP phone. This is similar to unplugging and plugging in the phone and is useful for maintenance. | NO |

| No | Option | Description | Default |
|---|---|---|---|
| 10 | FRAME COUNT | This value determines the transmission interval time of VoIP packets generated by the IP phone. This data uses MMC 841 ITP DSP PARA DOWN = PHONE DATA only. The range is 10~40 ms. | 20 ms |
| 11 | JITTER BUF | Decides the minimum time to consider delay for jitter adjustment. This data uses MMC 841 ITP DSP PARA DOWN = PHONE DATA only. The range is 10~90 ms. | 20 m |
| 12 | TOS FIELD | An 8-bit binary value that will be used by external routers, switches, etc, (that optionally support TOS-bit prioritization) to identify the transport-priority value of data packets generated by the IP phone. This value can be left at the default value (00000) if your network infra-structure does not support this method of bandwidth management. This data uses MMC 841 ITP DSP PARA DOWN = PHONE DATA only. | All bits 0 |
| 13 | S/W VERSION | Display IP phone software version. (Read only.) | - |
| 14 | S/W UPGRADE | This is used as IP phone software upgrade request command. When YES is selected and Right Soft button is pressed, the system requests IP phone software up-grade with TFTP IP address. | - |
| 15 | TIME ZONE | Allows remote IP phones to display own time zone. | 00.00 |
| 16 | PUBLIC TO PUBLIC | When this option is set to USE MGI, the MGI can be allocated between remote IPs in the same private zone. | NOT USE MGI |
| 17 | SIG TYPE | This option can change UDP/TCP signal type for IPs. (ITP V3.xx only supports the TCP signal type. If TCP is set and ITP V2.xx attempts to connect, the TCP signal type will change from TCP to UDP automatically.) | UDP |
| 18 | PRIVATE IP | Displays private IP address of remote IP phone allo-cated by phone's router. | - |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 840.<br>Display shows: | [3201]USER ID<br>3201 |
| 2. Enter IP phone number via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [3210]USER ID<br>3210 |
| 3. Enter IP phone option number via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | [3210]DSP TYPE<br>G.729A |
| 4. Enter option data via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and return to step 3. | [3210]DSP TYPE<br>G.711 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 615 | MGI GROUP |
| MMC 616 | MGI USER |
| MMC 830 | ETHERNET PARAMETERS |
| MMC 831 | MGI PARAMETERS |
| MMC 835 | MGI DSP OPTIONS |
| MMC 841 | SYSTEM IP OPTIONS |

# [841] SYSTEM IP OPTIONS

This MMC provides various proprietary Samsung VoIP and IP integration options. The options set in this MMC apply system wide.

| No | Option | Description | Default |
|---|---|---|---|
| 00 | PHONE VERSION | Sets running IP-based phone and new phone software version with the system.<br>0 LARGE DGP: Large LCD phone<br>1 LARGE ITP: Large LCD IP-based phone<br>2 2LINE ITP2: 2-line LCD IP-based phone<br>3 WIPM APPL: Wireless IP-based mobile phone software.<br>4 SOFT PC: IP phone emulation on PC (Soft-Phone application)<br>5 SOFT PDA: IP phone emulation on PDA (Soft-Phone application)<br>8 WIPM BOOT: Wireless IP-based mobile phone boot program.<br>9 SOFT MENU: Soft menu version | 0000 |
| 01 | PHONE TFTP IP | Sets phone software upgrade TFTP server IP address. | 0.0.0.0 |
| 02 | ITP REGISTRATION | Defines the method that IP-based phones use to register with the system. | |
| | | 0 TYPE:<br>a) SYS PSWD: System will authenticate the IP-based phones with the value in ITP REGISTRATION: PSWD parameter (see 1, below).<br>B) PHONE PSWD: System will authenticate the IP-based phones according to entries made in MMC 840.<br>c) DISABLE: System will not authenticate IP-based phones. | SYS PSWD |
| | | 1 PSWD: This is a system-wide password used for registration of IP phones. | 1234 |
| 03 | EASYSET OPTION | Sets EasySet link via LAN option with the system. | |
| | | 0 PSWD: This is a system-wide password used for authentication of EasySet server. | 1234 |
| | | 1 ALIVE: This is an EasySet link via LAN alive check timer. | 0 SEC |

| No | Option | Description | Default |
|---|---|---|---|
| 04 | CTI LINK OPTION | Sets CTI link via LAN option with the system. | |
| | | 0 SMDR REPORT: Sets YES or NO for SMDR data to CTI link via LAN. | NO |
| | | 1 UCD REPORT: Sets YES or NO for UCD data to CTI link via LAN. | NO |
| | | 2 ALIVE: This is a CTI link via LAN alive check timer. If this is set to 0, the system will not check link alive. | 300 SEC |
| 05 | ITP DSP PARA | Sets IP phone DSP parameter system wide. | |
| | | 0 M-FRAME: This value determines the transmission interval time of VoIP packets generated by the IP phone. This data uses DOWN = SYS DATA only (see 3, below). The range is 10~40 ms. | 10 ms |
| | | 1 JITTER: Decides the minimum time to consider delay for jitter adjustment. This data uses DOWN = SYS DATA only (see 3, below). The range is 10~90 ms. | 20 ms |
| | | 2 TOS: An 8-bit binary value that will be used by external routers, switches, etc, (that optionally support TOS-bit prioritization) to identify the transport-priority value of data packets generated by the IP phone. This value can be left at the default value (00000) if your network infrastructure does not support this method of bandwidth management. This data uses DOWN = SYSTEM DATA only (see 3, below). | All bits 0 |
| | | 3 DOWN: Determines whether system-wide data or individual phone data is used for DSP control of IP-based phones.<br>a) SYSTEM DATA: System-wide data will be used (MMC 841)<br>b) PHONE DATA: Individual phone data will be used (MMC 840) | SYS DATA |
| 06 | ITP TX GAIN/HSET | Sets IP-based phone Handset TX gain value of each level. | Depends on country |
| 07 | ITP RX GAIN/HSET | Sets IP-based phone Handset RX gain value of each level. | Depends on country |

| No | Option | Description | Default |
|---|---|---|---|
| 08 | ITP TX GAIN/MIC | Sets IP-based phone MIC gain value of each level. | Depends on country |
| 09 | ITP RX GAIN/SPKR | Sets IP-based phone SPKR gain value of each level. | Depends on country |
| 10 | ITP VERS UPGRADE | Sets IP-based phone software upgrade option with the system. | |
| | | 0 TYPE:<br>a) MMC COMMAND: IP-based phone software upgraded manually in MMC 840.<br>b) PHONE CON: IP-based phone software upgraded automatically when phone connected.<br>c) AUTO TIME: IP-based phone software upgraded automatically at set time. | MMC COMMAND |
| | | 1 START (HHMM): IP-based phone software automatic upgrade start time. | 0000 (Disable) |
| | | 2 INTERVAL: IP-based phone software automatic upgrade interval time. | 10 seconds. |
| 11 | MGI ALIVE PERIOD | Set the time interval of checking the link connection of MGI module and the system. | - |
| 13 | LICENSE KEY | Insert the license key to enable SoftPhone connection. | NONE |
| 14 | LICENSE STATUS | The status (Valid or Invalid) of the inserted license key. | - |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 841.<br>Display shows the first available option. | PHONE VERSION<br>LARGE DGP: 0000 |
| 2. Enter option category number 0-13 via dial keypad (e.g. 2)<br>OR<br>Press Volume button to make select and press Right Soft button to move cursor. | ITP REGISTRATION<br>TYPE: SYS PSWD |
| 3. Enter option number via dial keypad.<br>OR<br>Press Volume button to make select and press Right Soft button to move cursor. | ITP REGISTRATION<br>PSWD: 1234 |
| 4. Enter option data.<br>OR<br>Press Right Soft button to save and return to step 3. | ITP REGISTRATION<br>PSWD: 8228 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 840 IP PHONE INFORMATION

# [842] SIP STATION INFORMATION

This MMC provides a means of registering the SIP with the OfficeServ 7400 system.

| No. | Parameter | Description |
|---|---|---|
| 0 | USER ID | When phone is registered, user ID for checking user |
| 1 | HOST NAME | Name of phone host device |
| 2 | USER PSWD | When phone is registered, user password for checking user |
| 3 | IP ADDR | IP address of IP phone |
| 4 | PHONE TYPE CISCO/SAMSUNG | Type of phone connected |
| 5 | USER FLAG | - |
| 6 | AUTH TYPE | - |
| 7 | ALGO USED | Encryption algorithm used |
| 8 | CURRENT STATUS | connected or disconnected |
| 3 | MAC ADDR | Hardware address of IP phone |
| 4 | SIG PORT | IP port to communicate with message to IP phone |
| 5 | VOICE PORT | IP port to communicate with voice packet to IP phone |
| 6 | IP TYPE | Type of IP address (0. PRIVATE, 1. PUBLIC) |
| 7 | DSP TYPE | DSP type if communicating as IP phone (0. G.711, 1. G.729A) |
| 8 | PHONE TYPE | Type of IP Phone (0. SAMSUNG, 1. SIP STANDARD) |
| 9 | REGIST CLR | Delete information for registered IP phone |
| 10 | FRAME CNT | This parameter set to buffering count of voice packets in case of transferring ones |
| 11 | JITTER BUF | This parameter provide guideline of controlling Jitter Buffering operation when voice packet translate PCM voice packet |
| 12 | TOS FIELD | Set to TOS (Type Of Service) field value |
| 13 | SW VERSION | Display registered IP phone version |
| 14 | SW UPGRADE | Set to SW upgrade |

## DEFAULT DATA

| Parameter | Default |
|---|---|
| USER ID | Initial IP Phone Number (e.g. 3601) |
| HOST NAME | NONE |
| USER PSWD | 1234 |
| IP ADDR | 0.0.0.0 |
| PHONE TYPE CISCO/SAMSUNG | CISCO |
| USER FLAG | ENABLE |
| AUTH TYPE | LOCAL |
| ALGO USED | MD5 |
| CURRENT STATUS | Not registered |
| MAC ADDR | FFFFFFFFFFFF |
| SIG PORT | - |
| VOICE PORT | - |
| IP TYPE | PRIVATE |
| DSP TYPE | G.729A |
| PHONE TYPE | SAMSUNG |
| REGIST CLR | - |
| FRAME CNT | - |
| JITTER BUF | 2 (x10MS) |
| TOS FIELD | 00000000 |
| SW UPGRADE | - |

## ACTION

1. Press Transfer button and enter 842.

   DISPLAY:
   ```
   [3201]USER ID
   3201
   ```

2. Enter IP phone number via dial keypad.
   OR
   Press Volume button to make select and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [3202]USER ID
   3202
   ```

3. Enter option number via dial keypad.
   OR
   Press Volume button to make select and press Right Soft button to move cursor.

   DISPLAY:
   ```
   [3202]IP TYPE
   PRIVATE
   ```

4. Enter option data.
   OR
   Press Right Soft button to save and return to step 3.

```
 [3202]IP TYPE
PUBLIC
```

5. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [844] IP STATION TYPE

Assign the IP station type (DESKTOP PHONE or MOBILE PHONE). For example, ITP-5012L or ITP-5014D must be set to DESKTOP PHONE and WIP-5000M must be set to MOBILE PHONE.

## DEFAULT DATA

001~032 for DESKTOP PHONE, 033~064 for MOBILE PHONE.

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 844. | INDEX:001 [3201]<br>MOBILE PHONE |
| 2. Dial index number (e.g., 033)<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | INDEX:033 [3301]<br>MOBILE PHONE |
| 3. Dial 1 or 0 to select type.<br>(1: MOBILE PHONE, 0: DESKTOP PHONE)<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | INDEX:033 [3301]<br>DESKTOP PHONE |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [845] WLAN PARAMETERS

This MMC modifies the WLAN parameters.

The SYSTEM KEY is used internally to distinguish between systems when registering a terminal. The default value is '00000', but this must be changed to another value to enable the use of WLAN terminals. In addition, the SYSTEM KEY serves as an identification ID when a WLAN terminal connects to the WBS24.

The default value of the SYSTEM ID, 'WBS24', must also be changed to another value in order to use multiple systems in one area. The DNS setting for WLAN is additionally described in this MMC.

Set the network configuration for WBS24 by setting the IP assignment, Netmask and Gateway. These settings should be compatible with the Intranet since the network configuration setting is essential for data service. In addition, the RF frequency for WBS24 should be selected. Currently up to 14 frequencies may be selected.

Session Initiation Protocol (SIP) variables used for the WBS24 (Basic) can be defined.

### WLAN PARAMETER

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | SYSTEM ID | ID used for distinguishing systems in a wireless environment. Different IDs must be assigned to different systems. | WBS24 |
| 01 | SYSTEM KEY | Key used for registering terminals. Different values must be assigned to each system. | 00000 |
| 02 | 1st DNS IP | First Domain Name Server (DNS) IP address | 0.0.0.0 |
| 03 | 2nd DNS IP | Second Domain Name Server (DNS) IP address | 0.0.0.0 |
| 04 | 2nd WBS IP | IP addresses of all WBS in system used by wireless terminal. Different IPs must be assigned to each system. | 168.208.144. 10 |
| 05 | CODEC LIST | CODEC that can be used for VoIP calls between WBS24 and terminal. G.711u, G.711a, G.726, and G.729 can all be assigned. | CODEC 1: G.729<br>CODEC 2: NONE<br>CODEC 3: NONE<br>CODEC 4: NONE |
| 06 | RF CHANNEL | Set a RF CHANNEL value that can be used by WBS. | USE CH 1: 01<br>USE CH 2: 06<br>USE CH 3: 11<br>USE CH 4: 00<br>USE CH 5: 00<br>USE CH 6: 00 |

| No | Parameter | Description | Default |
|---|---|---|---|
| 07 | VERSION | WLAN module version. | Version |
| 08 | TFTP SERVR | WBS UPGRADE Server IP. | 0.0.0.0 |
| 09 | TFTP FILE | WBS UPGRADE file name. | WBS00000.TFP |
| 10 | WBS TX PWR | TX POWER of all WBSs. | DEFAULT |
| 19 | CLR WBSREG | Initializes registration data of all WBS. | NO |

## WBS PARAMETER

There are two types of WBS, the COMBO AP and BASIC AP. A system cannot use both types of WBS at the same time. The AP type to be used can be set in MMC 849. Depending on the selected AP type, this program displays COMBO AP (CWBS), and BASIC AP (BWBS).

- **When using COMBO AP (CWBS)**
  WBS24 COMBO is connected to a WLI module. Up to three WLI modules can be installed. (A single WLI module can connect up to eight WBS24 COMBOs.)

- **When using BASIC AP (BWBS)**
  WBS24 BASIC is connected to the system through the network and requires an MGI port to provide tone and call path connection.

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | IP ADDRESS | WBS24 IP address for Ethernet. | 0.0.0.0 |
| 01 | GATEWAY | Gateway address of the WBS24 Network. | 0.0.0.0 |
| 02 | NET MASK | Netmask of the WBS24 Network. | 255.255.255.0 |
| 03 | MAC ADDR | MAC address of WBS24 received by the system when WBS24 is connected. | FFFF FFFF FFFF |
| 04 | VERSION | WBS24 software version. | Version |
| 05 | STATUS | Alive operation status. | OFF |
| 06 | RF CH. | RF channel no. used by each WBS24 . | 1, 6, or 11 |
| 07 | TX POWER | TX POWER of each WBS. | DEFAULT |
| 09 | TIME ZONES | Time zone service for each WBS | 00:00 |
| 10 | PARA CLR | Initializes WBS registration data. | NO |

### SIP PARAMETER

| No | Parameter | Description | Default (ms) |
|---|---|---|---|
| 0 | RE-TRANS T1 | When using an unreliable transmission protocol such as UDP, retransmission is required when no reply is received. RE-TRANS.T1 TIME is the initial retransmission interval defined in RFC2543. | 500 |
| 1 | RE-TRANS T2 | Maximum retransmission interval defined in RFC 2543 | 4000 |
| 2 | RE-TRANS T4 | RFC 2543 defines this parameter for various purposes. For example, this parameter can be used as the time waited by User Agent Server after receiving ACK message in an unreliable transmission protocol. | 5000 |
| 3 | GEN RING TM | When using an unreliable transmission protocol, the server cannot be sure if the client has received the last reply. Thus, the server must retransmit the reply for this length of time until it receives the requested retransmission. For example, this parameter can be used as the waiting time after sending 200 OK for INFO. | 6000 |
| 4 | INV RING TM | When using an unreliable transmission protocol, the client cannot verify if the server has received the ACK returned to the server for the INVITE Final Response. The client waits for this length of time after sending the ACK for the Final Response. | 1000 |
| 5 | GEN NO RESP | Waiting time before cancelling SIP related Request. | 5000 |
| 6 | INV NO RESP | Waiting time before cancelling SIP INVITE Request. | 6000 |
| 7 | REQ RETRY | Waiting time for receiving final response for SIP related Request. | 5000 |
| 8 | PROVISIONAL | On receiving Provision Response, the User Agent must wait for this length of time until Timeout. | 180000 |

## DEFAULT DATA

SEE DESCRIPTION

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 845. | WLAN: SYSTEM ID<br>WBS24 |
| 2. When the cursor is on WLAN, press Volume button and select WLAN, WBS, or SIP. | WLAN: SYSTEM ID<br>WBS24 |
| 3. Press Right Soft button to move to the SYSTEM ID. When the cursor is below SYSTEM ID, press Volume button to select the setting menu for WLAN. | WLAN: SYSTEM ID<br>WBS24 |
| 4. Set the items below at the WLAN menu. | |
| SYSTEM ID: Use the Soft button to move the cursor and enter the new WLAN SYSTEM ID to register. | WLAN: SYSTEM ID<br>WBS24 |
| Press Soft button and proceed to next register status. | |
| Register the SYSTEM KEY. | WLAN: SYSTEM KEY<br>00000 |
| Register the 1st DNS server IP. | WLAN: 1ST DNS IP<br>0. 0. 0. 0 |
| Register the 2nd DNS server IP. | WLAN: 2ND DNS IP<br>0. 0. 0. 0 |
| Register the 2nd WBS IP. | WLAN: 2ND WBS IP<br>0. 0. 0. 0 |
| Select the voice codec. Select from G711a, G711u, and G729 CODEC.<br>Numbers are given from 1 to 4 based on priority. | WLAN: CODEC LIST<br>CODEC 1: G.711a |
| Select the usable RF channel. Maximum six channels can be used for a system.<br>(Default RF channel: 1, 6, 11) | WLAN: RF CHANNEL<br>USE CH 1: 01 |
| Used to change the TX POWER of all WBS.<br>(Default: LEVEL 1~4) | WLAN: WBS TX PWR<br>DEFAULT |
| Used to clear registration information of all WBS. | WLAN: CLR WBSREG<br>ARE YOU SURE?NO |

5. Set the items below at the WBS24 menu. The selected WBS is as set in MMC 849 (SELECT AP TYPE option) i.e. CWBS=COMBO WBS, BWBS=BASIC WBS.

| | |
|---|---|
| Register the WBS24 IP ADDRESS. | CWBS1: IP ADDR<br>0. 0. 0. 0 |
| Register the WBS24 NET MASK. | CWBS1: NET MASK<br>255.255.255. 0 |
| Register the WBS24 GATEWAY. | CWBS1: GATEWAY<br>0. 0. 0. 0 |
| Displays the WBS24 MAC ADDRESS. | CWBS1 : MAC ADDR<br>FFFF FFFF FFFF |
| Displays the WBS24 VERSION. | CWBS1 : VERSION |
| Displays the WBS24 STATUS. | CWBS1 : STATUS<br>OFF |
| Register the WBS24 RF CHANNEL. (The WBS RF channel must be selected from the pre-assigned RF channels in WLAN RF CHANNELS). | CWBS1 : RF CHAN<br>USE CH 1:01 |
| Register the WBS24 TX POWER. (Default: LEVEL 1~4) | CWBS1 : TX POWER<br>DEFAULT |
| Used to clear the WBS parameter. | CWBS1 : PARA CLR<br>ARE YOU SURE?NO |

6. Set the items below at the menu.

| | |
|---|---|
| Register the RE-TRANS T1.<br>The initial re-transmission time if no answer, based on the RFC2543 specification.<br>The range is 0-9900 ms. (Default: 500 ms) | SIP : RE-TRANS T1<br>000500MS |
| Register the RE-TRANS T2.<br>The maximum re-transmission time if no answer, based on the RFC2543 specification.<br>The range is 0-9900 ms. (Default: 4000 ms) | SIP : RE-TRANS T2<br>004000MS |

Register the RE-TRANS T4. The time the User Agent Server waits after receiving the ACK message.
Based on the RFC2543 specification.
The range is 0-9900 ms. (Default: 5000 ms)

```
SIP : RE-TRANS T4
005000MS
```

Register the GEN RING TM. The server retransmits the response for this length of time until the requested retransmission is received. For example, the wait time after sending 200 OK for INFO.
The range is 0-99900 ms. (Default: 6000 ms)

```
SIP : GEN RING TM
006000MS
```

Register the INV RING TM. After the client sends ACK for the INVITE Final Response, the client cannot confirm if the server received the ACK message. The client waits this long after sending ACK for the Final Response.
The range is 0-99900 ms. (Default: 1000 ms)

```
SIP : INV RING TM
001000MS
```

Register the GEN NO RESP. Before sending Cancel for General Request, the User Agent waits this long.
The range is 0-99900 ms. (Default: 5000 ms)

```
SIP : GEN NO RESP
005000MS
```

Register the INV NO RESP. Before sending Cancel for the Invite Request, the User Agent waits this long.
The range is 0-99900 ms. (Default: 5000 ms)

```
SIP : INV NO RESP
006000MS
```

Register the REQ RETRY. After sending General Request, he User Agent waits for the Final Response for this length of time.
The range is 0-99900 ms Default is 5000 ms

```
SIP : REQ RETRY
005000MS
```

Register the PROVISIONAL. After receiving the Provision Response, the User Agent waits this long until Timeout ends.
The range is 0-999900 ms. (Default: 180000 ms)

```
SIP : PROVISIONAL
180000MS
```

7. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 846 WIP INFORMATION
MMC 847 WLAN RESET AND STATUS CHECK
MMC 848 WLAN IP/MAC LIST
MMC 849 WLAN CONFIGURATION

# [846] WIP INFORMATION

This MMC sets up the WIP-5000M wireless terminal information.

| No | Parameter | Description | Default |
|---|---|---|---|
| 00 | REGISTERED | Shows if the terminal is registered | NO |
| 01 | LOCATED | Shows if the terminal is connected to the system | DETACH |
| 02 | PHONE TYPE | Shows the type of the terminal | NONE |
| 03 | WLI NUMBER | Number of WLI connected to the WBS24 servicing the terminal | - |
| 04 | WBS NUMBE | Number of WBS24 servicing the terminal | - |
| 05 | IP OFFSET | Location of IP pool of the terminal IP | - |
| 06 | IP ADDRESS | Terminal IP address | 0.0.0.0 |
| 07 | MAC ADDR | Terminal MAC address | 0000 0000 0000 |
| 08 | USER ID | User ID per terminal | 1212 |
| 09 | PASSWORD | Password of terminal user | 0000 |
| 10 | INSERT DGT | If five or more numbers are entered into the WIP terminal, this INSERT DGT is prefixed to the numbers, provided the entered numbers do not start with a C.O. number, C.O. group number, LCR, network LCR, or function code. | - |

## DEFAULT DATA

SEE DESCRIPTION

## ACTION

## DISPLAY

1. Press Transfer button and enter 846.

```
[3301] REGISTERED
NO
```

2. Dial the WIP number.
   OR
   Press Volume button to select station and press Right Soft button to move cursor.

```
[3301] REGISTERED
NO
```

3. Set the items below at the menu.
   Confirm the status of terminal registration for each phone number.

```
[3301] REGISTERED
NO
```

| | |
|---|---|
| Displays the location of the registered terminal. | [3301] LOCATED<br>DETACH |
| Displays the PHONE TYPE of the registered terminal. | [3301] PHONE TYPE |
| Displays the WLI NUMBER of the registered terminal (currently not used) | [3301] WLI NUMBER |
| Displays the WBS NUMBER of the registered terminal. | [3301] WBS NUMBER |
| Displays the IP OFFSET of the registered terminal. | [3301] IP OFFSET |
| Displays the IP ADDRESS of the registered terminal. | [3301] IP ADDRESS |
| Displays the MAC ADDRESS of the registered terminal. | [3301] MAC ADDR |
| Register the USER ID of the terminal. | [3301] USER ID<br>1212 |
| Register the PASSWORD of the terminal. | [3301] PASSWORD<br>0000 |
| Register the INSERT DGT for the terminal. (These digits will be automatically inserted in front of user dialling digits when there are more than four digits and they do not start with the trunk access code or feature code) | [3301] INSERT DGT<br>_ |

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 847 | WLAN RESET AND STATUS CHECK |
| MMC 848 | WLAN IP/MAC LIST |
| MMC 849 | WLAN CONFIGURATION |

# [847] WLAN RESET AND STATUS CHECK

This MMC is used for rebooting all or individual WBS24 and for initializing the WLI module. The operational status of the WLI and WBS24 can also be displayed.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button, and enter 847. | RESET :WLI :1<br>RESET NOW ? NO |
| 2. Select the item number (0: RESET, 1: STATUS)<br>OR<br>Press Volume button to select item number and press Right Soft button to move cursor. | RESET :WLI :1<br>RESET NOW ? NO |
| 3. Select the type (WLI or WBS) | RESET :WLI :1<br>RESET NOW ? NO |
| 4. Select the WLI/WBS number.<br><br>If you press ANS/RLS or CONF button, all WLI (or all WBS) will be selected. | RESET :WLI :2<br>RESET NOW ? NO |
| 5. Press Soft button, or press [1] to select YES, and the WLI/WBS will be initialized. | RESET :WLI :2<br>RESET NOW ? NO |
| 6. To verify the status of the WLI or WBS, select 1. | STATUS: WLI<br>C1S1 OFF OFF<br><br>STATUS: CWBS:01→<br>Y N N N N N N N |
| 7. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 846 | WIP INFORMATION |
| MMC 848 | WLAN IP/MAC LIST |
| MMC 849 | WLAN CONFIGURATION |

# [848] WLAN IP/MAC LIST

This MMC is used when viewing the IP list assigned to WLAN, or when creating a new IP list. This IP address is automatically assigned to WIP-5000M during a new registration procedure. If the IP address is already assigned, the assigned terminal number will be shown in the USED field.

Also, the MMC is used to set MAC addresses in the terminal in order to use the wireless LAN (not yet implemented).

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button, and enter 848. | IP:001 USED:<br>0. 0. 0. 0 |
| 2. Select the menu (0: IP LIST, 1: MAC LIST) | IP:001 USED:<br>0. 0. 0. 0 |
| 3. Select the table number. | IP:001 USED:<br>_ 0. 0. 0. 0 |
| 4. Enter the IP ADDRESS. | IP:001 USED:<br>168. 0. 0. 0 |
| 5. A number next to USED indicates the terminal number to which the IP ADDRESS was assigned. | IP:001 USED:3301<br>168.219.149. 5 |
| 6. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 846 | WIP INFORMATION |
| MMC 847 | WLAN RESET AND STATUS CHECK |
| MMC 849 | WLAN CONFIGURATION |

# [849] WLAN CONFIGURATION

This MMC is used to set the WLAN configuration.

| Parameter | Description |
|---|---|
| REGISTER VoWLAN | Enable or disable registration of new WIP-5000M mobile phone. |
| WIP REGIST CLEAR | Used to clear the registration of WIP. FORCED mode clearing is used when the device is not connected normally (e.g. device broken), otherwise the NORMAL mode clearing can be used. |
| WBS WEP SERVICE | Enable or disable the WEP (Wired Equivalent Privacy) feature |
| WEP KEY | Assign the WEP key (13 characters only) |
| STATIC WBS IP | Select the use of Static WBS IP |
| STATIC WIP IP | Select the use of Static WIP IP |
| SELECT AP | Select if using COMBO or BASIC AP. (If COMBO is selected, a WLI module must be installed in the system. BASIC allows APs to run without this module.) |

## DEFAULT DATA

REGISTER VoWLAN: DISABLE
WIP REGIST CLEAR: FORCED
WBS WEP SERVICE: DISABLE
WEP KEY: NONE
STATIC WBS IP: DISABLE
STATIC WIP IP: DISABLE
SELECT AP TYPE: BASIC AP (DEPENDS ON COUNTRY)

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button, and press 849. | ENTER PASSWORD<br>_ |
| 2. Enter the PASSCODE.<br>(This PASSCODE is assigned in MMC 202 WLAN REGST) | ENTER PASSCODE<br>**** |
| 3. Select ENABLE to register a terminal. | REGISTER VoWLAN<br>ENABLE |
| 4. Select WIP REGIST CLEAR to clear the registration status for a terminal. | WIP REGIST CLEAR<br>3301:FORCED |
| 5. Select the WEP KEY setting when ENCRYPTION is selected. | WBS WEP SERVICE<br>DISABLE |

6. Enter WEP KEY values when the WBS WEP SERVICE is enabled (13 characters only)

```
WEP KEY
```

7. Select ENABLE to use the static WBS IP.

```
STATIC WBS IP
DISABLE
```

8. Select ENABLE to use the static WIP IP.

```
STATIC WIP IP
DISABLE
```

9. Select AP TYPE of the system.

```
SELECT AP TYPE
COMBO AP
```

*If you change the AP type, the system must be restarted.*
Select YES to restart system.

```
SELECT AP TYPE
RESET SYSTEM?NO
```

10. Press Transfer button to save and exit.
OR
Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 846 | WIP INFORMATION |
| MMC 847 | WLAN RESET AND STATUS CHECK |
| MMC 848 | WLAN IP/MAC LIST |

# [850] SYSTEM RESOURCE DISPLAY

This MMC is used for system resource display (used and free resources). This is a READ-ONLY MMC.

0. DTMFR DSP'S
1. CID DSP'S
2. R2MFC DSP'S
3. CONF GROUP'S

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 850.
   Display shows:

2. Enter the option number (0-3).
   OR
   Press Volume button to select.

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## DISPLAY

```
DTMFR DSP'S
USE:000 FREE:012
```

```
CID DSP'S
USE:000 FREE:014
```

## RELATED ITEMS

NONE

# [851] ALARM REPORTING

This MMC is used to view, store, print or clear system alarms. Two levels of faults are displayed via an alarm code: major alarms and minor alarms. Major alarms codes are usually service affecting and require a certified technician to determine the fault. A minor alarm indicates a fault that may or may not be service affecting and usually does not seriously degrade the system's operating capabilities.

The alarm buffer holds up to 100 alarms on a first in-first out (FIFO) basis. Alarms provide a date and time stamp based on the system time. If applicable, the hardware chassis, port, and/or slot will be displayed. Alarm information can be printed on demand and as it is provided.

**ALARM REPORTING OPTIONS (Select one of the options)**

| No | Option | Description |
|---|---|---|
| 0 | VIEW ALARMS | View alarm buffer. |
| 1 | OVERFLOW CONTROL | Determines buffer control when buffer is full.<br>0 OVERWRITTEN: When buffer is full, the oldest entry in buffer is overwritten. (Default.)<br>1 STOP RECORDING: When buffer is full, stop recording alarms. |
| 2 | CLEAR ALARM BUF | Clears alarm buffer. |
| 3 | PRINT ALARM BUF | Prints contents of alarm buffer. |


NOTE

**ALARM CODE DEFINITION**

See Alarm Code Definitions in MMC 852

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 851.<br>Display shows: | SYS ALARM REPORT<br>VIEW ALARMS |
| 2. Enter desired option.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | SYS ALARM REPORT<br>VIEW ALARMS |
| 3. System displays the alarm count number, date and time stamp.<br>Alarm type and cause code will display. | [00] 02/18 14:30<br>MNF02 C1-S02 |
| 4. Press Volume button to scroll through other alarms.<br>OR<br>Press Right Soft button to return to step 2. | SYS ALARM REPORT<br>VIEW ALARMS |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 852 SYSTEM ALARM ASSIGNMENTS

# [852] SYSTEM ALARM ASSIGNMENTS

This MMC allows the assignment of system alarms to ring and display on stations that have an Alarm key assigned. The Alarm key is assigned in MMC 722 (Station Key Programming). Alarm key programming is tenant wide (tenants 1 and 2). Alarms not programmed to report to the system Alarm key will still be retained in the maintenance alarm buffer for Alarm Reporting (MMC 851). The alarm buffer holds up to 100 alarms on a First In-First Out (FIFO) basis. Pressing the Alarm key will silence the audible alarm until another alarm is generated by the system. Alarm conditions that have multiple causes (e.g., PRI errors and synchronization loss) will print all associated alarm information if an SIO port is programmed as an ALARM port. The specific fault alarm data can be displayed via MMC 851, System Alarm Reporting.


NOTE

Alarm Notification Off/On (0/1) determines if the alarm provides a visual and audible notification to the system Alarm key station(s). Pressing the Alarm key and the Release key will silence the audible alarm only at the station that pressed the Alarm key and the Release key.

**Alarm Code Definitions:**

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| | **MJA--** | **MP Error** | **System Fault** |
| 01 | MJA01 | POR Restart | MP restart process has been executed via power on restart (POR). |
| 02 | MJA02 | Soft Restart | MP restart process has been executed via button reset. |
| 03 | MJA03 | Mem Reset | The system RAM has been cleared via manual programming (PC or keyphone) resulting in a system reset. |
| 04 | MJA04 | MP Reset | The MP has a software exception error.<br>Alarm data = Reason<br>- BUS ERR: Restart Bus Error<br>- ADDR.ERR: Restart Address Error<br>- ILLEGAL: Restart Illegal Opcode<br>- ZERO DIVID: Restart Zero Divide<br>- PRIVILEGE: Restart Privilege Violation<br>- ENDL LOOP: Restart Endless Loop |
| 05 | MJA05 | LP Reset | The LP has reset<br>Alarm data = Chassis (1, 2 or 3) |
| 06 | MJA06 | PCM Switching | A fault has occurred in the Switching Control<br>Alarm data = MP BASE, ESM: 1, ESM: 2 or ESM: 3 |

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| | **MJB--** | **LP/TASK Error** | **LP or TASK Fault** |
| 08 | MJB01 | HDLC Com Error | Communications to LP lost or faulty. |
| 09 | MJB02 | Memory Alarm 1 | A RAM diagnostic check error has occurred in the MP. |
| 10 | MJB03 | Memory Alarm 2 | A RAM diagnostic check error has occurred in chassis 1 LP. |
| 11 | MJB04 | Memory Alarm 3 | A RAM diagnostic check error has occurred in chassis 2 LP. |
| 12 | MJB05 | Memory Alarm 4 | A RAM diagnostic check error has occurred in chassis 3 LP. |
| 13 | MJB06 | IPC MSGQ Over | IPC TX queue full error has occurred in the MP.<br>Alarm data = IPC Queue type |
| 14 | MJB07 | Task MSGQ Over | Task MSG queue full error has occurred in the MP.<br>Alarm data = Error Task |
| | **MJC--** | **DSP Error** | **System DSP Fault** |
| 16 | MJC01 | DTMF Fault | An abnormal interrupt has occurred in the system DTMF resources.<br>Alarm data = DTMF Receiver DSP position |
| 17 | MJC02 | Tone Fault | An abnormal interrupt has occurred in the system tone resources.<br>Alarm data = TONE Receiver DSP position. |
| 25 | MJC10 | AA-DTMF Fault | An abnormal fault reported in one of the AA card DTMF resources.<br>Alarm data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 26 | MJC11 | AA-MFR Rec | An abnormal fault reported in one of the AA card DTMF resources has recovered.<br>Alarm data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 27 | MJC12 | E911 Restart | The E911 card has restarted.<br>Alarm data = Chassis, Slot (Cx-Syy) |
| 28 | MJC13 | E911 Block | The E911 card has blocked because the system detects the card does not work correctly.<br>Alarm data = Chassis, Slot (Cx-Syy) |
| 31 | MJC16 | WLI Restart | The WLI module has restarted.<br>Alarm data = Chassis, Slot (Cx-Syy) |
| 32 | MJC17 | WLI Block | The WLI module has blocked because the system detects the module does not work correctly.<br>Alarm data = Chassis, Slot (Cx-Syy) |

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| | **MJD--** | **DTRK Error** | **ISDN or E1 card Fault** |
| 33 | MJD01 | Sync Failure | Clocking on TEPRI module has become asynchronous. |
| 34 | MJD02 | Sync Recovery | Clocking on TEPRI module has become synchronous. |
| 35 | MJD03 | Red Alarm | Locally detected loss of PCM carrier on TEPRI module for more than 250 ms.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 36 | MJD04 | Red Alarm Rec | PCM carrier detected locally on TEPRI module.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 37 | MJD05 | Yellow Alarm | Remotely detected failure transmitted in frame on TEPRI module.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 38 | MJD06 | Yellow Alarm Rec | Remotely detected failure restored transmitted on TEPRI module.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 39 | MJD07 | Blue Alarm | All 1's being transmitted on facility on TEPRI module.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 40 | MJD08 | Blue Alarm Rec | A blue alarm condition has been cleared.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 41 | MJD09 | Bit Error Alarm | Alarm is activated when the error rate exceeds $1x10^{-6}$ errors. Note: $1x10^{-6}$ is threshold for minor alarm, $1 \times 10^{-3}$ is threshold for major alarm errors on E1, PRI or BRI.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 42 | MJD10 | NTWRK Event | An Implausible event has occurred on the PRI or BRI Network digital line. Protocols do not match or subscriber ID mismatch.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 43 | MJD11 | SPID Init Error | The BRI received an error from the network<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 44 | MJD12 | SPID Init Rec | The BRI has recovered from an error on the network<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 45 | MJD13 | LPBK Error | Internal on demand loopback failed.<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 46 | MJD14 | LPBK Recovery | Internal on demand loopback test passed.<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 47 | MJD15 | BRI DL Unavail | A BRI data link is out of service.<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 48 | MJD16 | BRI DL Recovery | A BRI data link is back in service.<br>Alarm Data = Chassis, Slot, Channel (Cx-Syy-czz) |
| 49 | MJD17 | RAM Error | An error has occurred in the TEPRI or BRI module RAM.<br>Alarm Data = Chassis, Slot (Cx-Syy) |

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| | **MJD--** | **DTRK Error** | **ISDN or E1 card Fault** |
| 50 | MJD18 | E1 Restart | The E1 card has restarted<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 51 | MJD19 | PRI Restart | The PRI module has restarted<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 52 | MJD20 | BRI Restart | The BRI module has restarted<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 53 | MJD21 | PCM Loss | Loss of PCM coding on a digital facility.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 54 | MJD22 | PCM Recovery | Loss of PCM coding on a digital facility.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| | **MJE--** | **MGI Error** | **MGI module Fault** |
| 55 | MJE01 | MGI Restart | The MGI module has restarted<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 56 | MJE02 | MGI Stop | The MGI module has stopped<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 57 | MJE03 | MGI IP Duplicate | The MGI module IP address is duplicated<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 58 | MJE04 | MGI NTWK Error | The MGI module has blocked because the system detects the module doesn't respond via network link.<br>External ping test.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 59 | MJE05 | MGI NTWK Rec | The MGI module has restarted because the system detects the module does respond via network link.<br>External ping test.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 60 | MJE06 | MGI DSP Error | The MGI module DSP has blocked because the system detects the module DSP does not run correctly.<br>Alarm Data = Chassis, Slot (Cx-Syy-Pzz) |
| 61 | MJE07 | MGI DSP Run | The MGI module DSP has restarted because the system detects the module DSP runs correctly.<br>Alarm Data = Chassis, Slot (Cx-Syy-Pzz) |
| 62 | MJE08 | WBS Disconnect | Indicates the WBS is disconnected.<br>Alarm Data = CWBS:xx or BWBS:xx |
| 63 | MJE09 | WBS Connect | Indicates the WBS is connected.<br>Alarm Data = CWBS:xx or BWBS:xx |

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| | **MNF--** | **Minor Error** | **Minor Fault with Alarm Buffer saving** |
| 64 | MNF01 | Card Out | A module mounted in a universal slot has been removed from service or is not recognized by the system<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 65 | MNF02 | Card In | A module mounted in a universal slot has been returned to service.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 66 | MNF03 | IPC Error | Inter-processor communication error has occurred.<br>Alarm Data = Chassis-Slot (Cx-Syy) |
| 67 | MNF04 | Trunk Fault | Out of service trunk detected via loop detect. Internal CODEC test.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 68 | MNF05 | Trunk Recovery | Out of service trunk detected via loop detected as out of service is now operational.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 69 | MNF06 | Trunk Disconnect | Out of service trunk detected via seizure of trunk. External seizure test.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 70 | MNF07 | Trunk Connect | Out of service trunk recovered via seizure of trunk. External seizure test.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 71 | MNF08 | SIO TxQ Over | SIO Tx Queue full error has occurred in the MP.<br>Alarm Data = SIO number (SIO: x) |
| 72 | MNF09 | SIO TxQ Under | SIO Tx Queue under error has occurred in the MP.<br>Alarm Data = SIO number (SIO: x) |
| 73 | MNF10 | E1 Out Of Srv | E1 digital line status has been changed to out of service.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 74 | MNF11 | E1 In Service | E1 digital line has been restored to normal service.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 75 | MNF12 | SIO Out | IO port has lost DTR<br>Alarm Data = SIO number (SIO: x) |
| 76 | MNF13 | SIO In | IO port has regained DTR.<br>Alarm Data = SIO 1 through 6 |
| 77 | MNF14 | TODC Error | Time of Day Clock in the MP has erred. |
| 78 | MNF15 | TSW Over Alarm | The TSW has been requested to exceed the capacity of available time slots. Maximum 192 per chassis.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 79 | MNF16 | PSU Alarm | There are more ports than can be supported in a chassis and more power is required.<br>Alarm Data = Chassis, Slot (Cx-Syy) |

| No | Code | Alarm Name | Definition |
|---|---|---|---|
| 80 | MNF17 | PSU Alarm Rec | Over-configuration of chassis has been corrected.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 81 | MNF18 | SLI Fault | An SLI module has been detected as out of service via an internal CODEC test.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 82 | MNF19 | SLI Recovery | An SLI module detected as out of service has been detected as recovered and is in service via internal CODEC test.<br>Alarm Data = Chassis, Slot, Port (Cx-Syy-Pzz) |
| 83 | MNF20 | PSUB Alarm | Indicates there are over 120 ports in a chassis with two PSUs.<br>Alarm Data = Chassis, Slot (Cx-Syy) |
| 84 | MNF21 | DSS Alarm | System capacity of 64-button DSS modules has been exceeded. |
| 85 | MNF26 | SIO RxQ Over | SIO Tx Queue full error has occurred in the MP.<br>Alarm Data = SIO number (SIO: x) |
| 86 | MNF27 | SIO RxQ Under | SIO Tx Queue under error has occurred in the MP.<br>Alarm Data = SIO number (SIO: x) |
| 87 | MNF28 | LAN Printer Err | LAN printer error has occurred in the MP.<br>Alarm Data = Data Type (SMDR) |
| 88 | MNF29 | LAN Printer Rec | LAN printer error has recovered in the MP.<br>Alarm Data = Data Type (SMDR) |
| | **MNG--** | **Minor Error** | **Minor Fault without Alarm Buffer saving** |
| 89 | MNG01 | Phone Disconnect | Indicates the Phone is disconnected.<br>Alarm Data = Tel number or Cx-Syy-Pzz |
| 90 | MNG02 | Phone Connect | Indicates the Phone is connected.<br>Alarm Data = Tel number or Cx-Syy-Pzz |
| 91 | MNG03 | Off Hook Alarm | Indicates Extension Off Hook timer has expired.<br>Alarm Data = Tel number or Cx-Syy-Pzz |
| 92 | MNG04 | On Hook | Indicates the Off Hook Alarm Extension is on hook.<br>Alarm Data = Tel number or Cx-Syy-Pzz |
| 93 | MNG05 | MGI Packet Loss | Indicates the MGI connection RTP packet loss is more than 10 %.<br>Alarm Data = Tel number or Cx-Syy-Pzz |
| 94 | MNG06 | MGI Packet Delay | Indicates the MGI connection RTP packet delay is more than 500 ms.<br>Alarm Data = Tel number or Cx-Syy-Pzz |

## DEFAULT DATA

ALL OFF

## ACTION

1. Press Transfer button and enter 852.
   Display shows:

   DISPLAY:
   ```
   01:MJA01 ACT:OFF
   POR Restart
   ```

2. Enter desired Alarm Display number.(e.g., 64)
   OR
   Press Volume buttons to select desired option and press Right Soft button to advance the cursor.

   DISPLAY:
   ```
   64:MNF01 ACT:OFF
   Card Out
   ```

3. To select if the alarm is active, press 1 for YES and 0 for NO.
   An entry will return the cursor to step 2.
   OR
   Press Volume buttons to make selection and press Right Soft button to save and return to step 2.

   DISPLAY:
   ```
   64:MNF01 ACT:ON
   Card Out
   ```

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 501 | SYSTEM TIMERS |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |
| MMC 851 | ALARM REPORTING |
| MMC 853 | MAINTENANCE BUSY |

# [853] MAINTENANCE BUSY

This MMC is used to place stations, trunks and common resources equipment in a maintenance busy condition. This can be used to isolate suspected intermittent problems. Stations placed in maintenance busy will behave like a station in DND when called. The calling stations display will show 'MADE BUSY'. Stations receiving DID or E&M type calls will receive a DND/ No more calls tone. The station display will still function with station and date.

When the busy station is accessed, it will function like a 'locked all' station. Trunks made busy cannot originate calls. Ring down type trunks will still ring the programmed destination. Common resource equipment such as DSPs, CID DSPs and miscellaneous equipment such as page ports and voice mail module ports can also be placed in a maintenance busy state.

### MAINTENANCE BUSY OPTIONS

| No | Option | Description |
|---|---|---|
| 0 | TRK | Trunks |
| 1 | STN | Stations |
| 2 | PAGE | Page Ports |
| 4 | DTMFR | DTMF Receiver (4/DSP) |
| 5 | CID | CID Receiver (14/DSP) |
| 6 | R2MFC | R2MFC Receiver (8/DSP) |
| 7 | CONF | GRP #01-24 |
| 8 | MGI | MGI Ports |

NOTE

**DTMFR/CID/R2MFC DSP**

If DTMFR, CID or R2MFC is selected when DSP is not mounted, display will show NONE. If mounted, display will show IDLE by default.

## DEFAULT DATA

ALL IDLE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 853.<br>Display shows busy functions: | MAINTENANCE BUSY<br>TRK :NONE→ |
| 2. Enter busy function type (0-8) via dial keypad.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | MAINTENANCE BUSY<br>STN :NONE→ |
| 3. Enter station number.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | MAINTENANCE BUSY<br>STN :201→IDLE |
| 4. Press 1 to make busy or 0 to make idle.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and return step 3. | MAINTENANCE BUSY<br>STN :201→BUSY |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 851 | ALARM REPORTING |
| MMC 852 | SYSTEM ALARM ASSIGNMENTS |

# [854] DIAGNOSTIC TIME

Provides a means to set the Diagnostic Time. The system diagnostics tests include memory audits, internal loopback tests on digital trunks, and DSP, AA DSP tests. Additional tests include CODEC tests on analogue trunks and station modules, and tone tests. If the diagnostics cannot complete the tests because of system traffic, the system will abort the tests and retry during the next programmed diagnostic time. It is recommended to assign the diagnostic time during non-peak traffic periods.

## DEFAULT DATA

NO DIAGNOSTIC TIME SET

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 854.<br>Display shows: | DIAGNOSTIC TIME<br>SUN: : |
| 2. Enter weekday number.<br>(0: Sun, 1: Mon, …, 6: Sat)<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | DIAGNOSTIC TIME<br>SUN:_ : |
| 3. Enter hour (24-hour clock) via the dial keypad.<br>Cursor will advance to next entry. | DIAGNOSTIC TIME<br>SUN:23:_ |
| 4. Enter minutes (24-hour clock) via the dial keypad.<br>Cursor will return to step 2. | DIAGNOSTIC TIME<br>SUN:23:30 |
| 5. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

| | |
|---|---|
| MMC 851 | ALARM REPORTING |
| MMC 852 | SYSTEM ALARM ASSIGNMENTS |
| MMC 853 | MAINTENANCE BUSY |

# [855] DISPLAY SYSTEM OPTIONS

This MMC provides a means to view miscellaneous hardware and daughterboards in the system without having to dismantle or power down the system to confirm if the hardware is mounted. This is a READ-ONLY MMC.

### OfficeServ 7400 Main System

| Option | Description |
|---|---|
| MP40 SW | Shows DIP software status of MP40 |
| Cx-LP CONN | Shows the status of LP40/LCP module |
| Cx-LP LOC y | Shows location of daughterboard (chassis x, slot y) |
| CxSy SW | Shows the DIP software status of TEPRI module |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 855.
   Display shows:

   ```
   SYSTEM OPTIONS
   MP40 SW:00000111
   ```

2. Press Volume button to view options.

   ```
   SYSTEM OPTIONS
   C1-LP CONN :YES
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [856] TECH PROGRAMMING LOGS

This MMC lists the date, time and entry location of the last eight times that technician-level programming was accessed. This allows a technician to determine if there was unauthorized access to system programming and where this access occurred. The information stored in this log is displayed, for each of the eight accesses, as follows: first line shows the start date and time of access; second line shows the access type (see table) and end date and time of access.

There are four access types:

| Type | Description |
|---|---|
| NNNN | The extension number of a phone that accessed programming directly (e.g. 3203) |
| MODEM | Programming was accessed by PC programming via the integrated V90 modem attached to the MP module in the basic chassis. |
| LAN | Programming was accessed by PC programming via the LAN connection on the MP module in the basic chassis. |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 856.
   Display shows:

   DISPLAY:
   ```
   (1) 11/22 11:03→
   3203 :11/22 11:27
   ```

2. Enter number 1-8 for required access display (e.g., 3)
   OR
   Press Volume button to scroll.

   DISPLAY:
   ```
   (3) 11/22 12:30→
   3203 :11/22 13:30
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

MMC 800 ENABLE TECHNICIAN PROGRAM

# [857] VIRTUAL CABINET

This MMC is used to program the type of module in the virtual cabinets. The following table shows the available choices.

| Cabinet | Slot | Max Ports | Default Selection | Choice | | | |
|---|---|---|---|---|---|---|---|
| | | | | SLT | DGP | Wired ITP | WLAN ITP |
| 4 | 1 | 32 | SLT | ■ | ■ | ■ | |
| | 2 | | | ■ | ■ | ■ | |
| | 3 | | | ■ | ■ | ■ | |
| | 4 | | DGP | ■ | ■ | ■ | |
| | 5 | | | ■ | ■ | ■ | |
| | 6 | | | ■ | ■ | ■ | |
| | 7 | | Wired ITP | | ■ | ■ | ■ |
| | 8 | | | | ■ | ■ | ■ |
| | 9 | | | | ■ | ■ | ■ |
| | 10 | | WLAN ITP | | ■ | ■ | ■ |
| | 11 | | | | ■ | ■ | ■ |
| | 12 | | | | ■ | ■ | ■ |

| Cabinet | Slot | Max Ports | Default Selection | Choice | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SIP STN | Wired ITP | IP UMS | BRI STN | GCONF STN | SPnet TRK | SIP TRK | H.323 TRK |
| 5 | 1 | 32 | SIP STN | ■ | ■ | | | | | | |
| | 2 | | | ■ | ■ | | | | | | |
| | 3 | | IP UMS | ■ | ■ | ■ | | | | | |
| | 4 | | BRI STN | ■ | | ■ | ■ | | | | |
| | 5 | | | ■ | | ■ | ■ | ■ | | | |
| | 6 | | GCONF STN | ■ | | ■ | ■ | ■ | ■ | | |
| | 7 | 32 | SPnet TRK | | | | ■ | ■ | ■ | | |
| | 8 | | | | | | | ■ | ■ | | |
| | 9 | | SIP TRK | | | | | | ■ | ■ | |
| | 10 | | | | | | | | ■ | ■ | |
| | 11 | | H.323 TRK | | | | | | ■ | ■ | ■ |
| | 12 | | | | | | | | ■ | ■ | ■ |

■ Available ■ Not available

## DEFAULT DATA

See above.

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 857.<br>Display shows: | C4-S01:SLT<br>SLT |
| 2. Enter cabinet number and slot number (1-12)<br>OR<br>Press Volume button to scroll and press Right soft button | C4-S01:SLT<br>SLT |
| 3. Press Volume button to scroll and select module type by pressing Right soft button. | C4-S01:SLT<br>DGP |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 724 NUMBER PLAB
MMC 822 VIR.EXT TYPE

# [858] ASSIGN SYSTEM EMERGENCY ALARM

Assigns the alarms to be sent to the Remote M&A PC (remote maintenance and administration) via the LAN interface.


NOTE

**Alarm Code Definition**

See Alarm Code Definition in MMC 852

## DEFAULT DATA

All OFF

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 858.<br>Display shows: | `01:MJA01 ACT:OFF`<br>`POR Restart` |
| 2. Enter the alarm entry number.<br>OR<br>Press Volume button to make selection and press Right Soft button to move cursor. | `02:MJA02 ACT:OFF`<br>`Soft Restart` |
| 3. Enter ON or OFF (1 or 0) for alarm.<br>OR<br>Press Volume button to make selection and press Right Soft button to save and return to step 2. | `02:MJA02 ACT:ON`<br>`Soft Restart` |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

MMC 852 SYSTEM ALARM ASSIGNMENTS

# [859] HARDWARE VERSION DISPLAY

This MMC is used for system hardware EPLD/PCB version display. This is a READ-ONLY MMC.

| No | Option | Description |
|---|---|---|
| 1 | MP40 CARD | Shows the EPLD/PCB version of MP40 module |
| 2 | Cx M-BOARD | Shows the Motherboard and EPLD/PCB version chassis #x |
| 3 | Cx LP CARD | Shows the LP and EPLD/PCB version of chassis #x |
| 4 | Cx LP-y | Shows the daughterboard and EPLD/PCB version |
| 5 | CxSyy | Shows the TEPRI module or MGI64 module and EPLD/PCB version |

## DEFAULT DATA

NONE

## ACTION

1. Press Transfer button and enter 859.
   Display shows:

   DISPLAY:
   ```
   EPLD/PCB VERSION
   MP40 CARD    :V11
   ```

2. Enter the option number.
   OR
   Press Volume button to scroll.

   DISPLAY:
   ```
   EPLD/PCB VERSION
   C1 M-BOARD  :V11
   ```

3. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

NONE

# [860] UCD STATUS SERVICE

This MMC sets the information on the UCD queue status or UCD Agent status to send to the SIO port in real time.

## CONDITIONS

To use this information, a special PC application is needed. This is not supplied by Samsung.

## DEFAULT DATA

UCD VIEW SERVICE: DISABLE
SENT AGENT STATE: NO

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 860.<br>Display shows: | UCD VIEW SERVICE<br>DISABLE |
| 2. Enter the number.<br>(0. UCD View Service, 1. Send Agent State)<br>OR<br>Press Volume button to select and press<br>Right Soft button to move cursor. | SEND AGENT STATE<br>YES |
| 3. Enter YES or NO (1 or 0)<br>OR<br>Press Volume button to select and press<br>Right Soft button to store. | SEND AGENT STATE<br>NO |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [861] SYSTEM OPTIONS

Sets a number of system options.

## DEFAULT DATA

AUTO UPDATE TIME : DISABLE
SYSTEM SPEED BIN : MAX 500
IDLE WHEN ENBLOC: DISABLE
2 LINE ENBLOCK: DISABLE
2 ZONE EXT PAGE: DISABLE
USE LB FOR PAGE: NONE
LP TRK TONE DISC: DISABLE
ISDN SS FEATURE: DISABLE

| No. | Option | Description |
|---|---|---|
| 00 | AUTO UPDATE TIME | Updates the system time from the ISDN network (Enable / Disable). |
| 01 | SYSTEM SPEED BIN | Sets 500 (dial 0) or 950 (dial 1) as the maximum number of system speed dial bins. If 950 is set, speed dial bin numbers are always three digits (000 to 999). |
| 02 | IDLE WHEN ENBLOC | Decides the state of Large LCD phones (idle or busy) when users are dialling in ENBLOC mode (Enable / Disable). |
| 03 | 2 LINE ENBLOCK | Enables ENBLOC dialling for 2-line LCD phones with navigation buttons (Enable / Disable). |
| 04 | 2 ZONE EXT PAGE | Enables paging to two external zones (one zone available by default) (Enable / Disable). |
| 05 | USE LB FOR PAGE | Use Loud Bell port for paging zone. |
| 06 | LP TRK TONE DISC | When this option is set to ON, loop trunk can be disconnected by detecting busy tone. |
| 08 | ISDN SS FEATURE | Enables ISDN Supplementary Services (Enable / Disable). |

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 861.<br>Display shows: | AUTO UPDATE TIME<br>DISABLE |
| 2. Enter the option number.<br>OR<br>Press Volume button to select and press Right Soft button to move cursor. | AUTO UPDATE TIME<br>DISABLE |
| 3. Enter 1 or 0 to enable or disable<br>OR<br>Press Volume button to select and press Right Soft button to store. | AUTO UPDATE TIME<br>ENABLE |

4. Press Transfer button to save and exit.
   OR
   Press Speaker button to save and advance to next MMC.

## RELATED ITEMS

| | |
|---|---|
| MMC 107 | KEY EXTENDER |
| MMC 505 | ASSIGN DATE AND TIME |
| MMC 606 | ASSIGN SPEED DIAL BLOCK |
| MMC 705 | SYSTEM SPEED DIAL |
| MMC 706 | SYSTEM SPEED DIAL BY NAME |
| MMC 722 | STATION KEY PROGRAMMING |
| MMC 723 | SYSTEM KEY PROGRAMMING |

# [865] FAN POWER CONTROL

This MMC controls the power of the fans in the chassis.

.

## CONDITIONS

NONE

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 865.<br>Display shows: | FAN PWR CONTROL<br>CABINET1 FAN:OFF |
| 2. Select the chassis number (1~3)<br>OR<br>Press Volume button to select and press<br>Right Soft button to move cursor. | FAN PWR CONTROL<br>CABINET1 FAN:OFF |
| 3. Enter OFF to switch off power to the fan or ON to switch power on<br>OR<br>Press Volume button to select and press<br>Right Soft button to store. | FAN PWR CONTROL<br>CABINET1 FAN:ON |
| 4. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | |

## RELATED ITEMS

NONE

# [889] DISPLAY SERVER STATUS

This MMC displays the history of connection and disconnection to the Data Server and Feature Server with the MP40 card. Also allows you to clear the recorded history log.

## DEFAULT DATA

NONE

| ACTION | DISPLAY |
|---|---|
| 1. Press Transfer button and enter 889.<br>Display shows: | TOTAL LOG CNT : 00<br>CLR RECORDED? NO |
| 2. Press Volume button to scroll displays | (01) 11/11 11:10<br>CONN-FEAT SERVER |
| 3. Press Transfer button to save and exit.<br>OR<br>Press Speaker button to save and advance to next MMC. | (02) 11/13 11:20<br>CONN-FEAT SERVER |

## RELATED ITEMS

NONE

# ANNEX. Abbreviations

## A

| | |
|---|---|
| AAA | Authentication, Authorization and Accounting |
| AC | Alternating Current |
| ACD | Automatic Call Distribution |
| ALG | Application Level Gateway |
| AME | Answering Machine Emulation |
| AMI | Alternate Mark Inversion |
| AOM | Add-On Module |
| AP | Access Point |

## B

| | |
|---|---|
| BGM | Background Music |
| BRI | Basic Rate Interface |

## C

| | |
|---|---|
| CA | Call Agent |
| CCBS | Call Completion to Busy Subscriber |
| CCNR | Call Completion on No Reply |
| CID | Caller Identification |
| CLI | Calling Line Identification |
| COM | Communication (port) |
| COS | Class Of Service |
| CPLD | Complex Programmable Logic Device |
| CRC | Cyclic Redundancy Code |
| CR Mode | Constant Resistance Mode |
| CSU | Communication Service Unit |
| CTI | Computer-Telephony Integration |

# D

| | |
|---|---|
| DASL | Digital Adapter Subscriber Loops |
| DECT | Digital Enhanced Cordless Telecommunications |
| DGP | Digital Phone |
| DHCP | Dynamic Host Configuration Protocol |
| DID | Direct Inward Dialling |
| DLI | Digital Line Interface |
| DND | Do Not Disturb |
| DPIM | Door Phone Interface Module |
| DSP | Digital Signal Processor |
| DSU | Data Service Unit |
| DTMF | Dual Tone Multi Frequency |

# E

| | |
|---|---|
| E&M | Ear&Mouth |
| EMI | Electro-Magnetic Interference |
| ESM | Expanded Switch Module |

# G

| | |
|---|---|
| GARP | Generic Attribute Registration Protocol |
| GK | Gatekeeper |
| GVRP | GARP VLAN Registration Protocol |

# H

| | |
|---|---|
| HDLC | High-level Data Link Control |
| HLR | Home Location Register |
| HTML | Hypertext Markup Language |
| HTTP | Hypertext Transfer Protocol |

# I

| | |
|---|---|
| ID | Identification |
| IDS | Intrusion Detection System |
| IGMP | Internet Group Management Protocol |
| IMAP | Internet Messaging Access Protocol |
| IN-SCP | Intelligent Network Service Control Point |
| IP | Internet Protocol |
| IPC | Inter-Processor Communication |
| IPDC | Internet Protocol Device Control |
| IPM | Inter-Processor communications and memory Module |
| IP-SCP | Internet Protocol Service Control Point |
| ISDN | Integrated Services Digital Network |
| ISUP | ISDN User Part |
| ITM | IP Telephony Module |
| ITP | IP Telephone |

# K

| | |
|---|---|
| KDB | Keyset Daughterboard |

# L

| | |
|---|---|
| LAN | Local Area Network |
| LCD | Liquid Crystal Display |
| LED | Light Emitting Diode |
| LIM | LAN Interface Module |
| LP40 | Local (control) Processor |

# M

| | |
|---|---|
| MDF | Main Distribution Frame |
| MFM | Multi Frequency Module |
| MGC | Media Gateway Controller |
| MGI | Media Gateway Interface |
| MGCP | Media Gateway Control Protocol |
| MIS | Miscellaneous function module |
| MMC | Man Machine Communication |
| MP40 | Main (control) Processor |
| MWSLI | Message Waiting Single Line Interface |

# N

| | |
|---|---|
| NAT | Network Address Translation |
| NMS | Network Management System |

# O

| | |
|---|---|
| OPX | Off-Premises Extension |

# P

| | |
|---|---|
| PAT | Port Address Translation |
| PBA | Printed (circuit) Board Assembly |
| PCB | Printed Circuit Board |
| PCM | Pulse Code Modulation |
| PLL | Phase Locking Loop |
| POP3 | Post Office Protocol version 3 |
| PPP | Point to Point Protocol |
| PPPoE | Point to Point Protocol over Ethernet |
| PRI | Primary Rate Interface |
| PRS | Polarity Reverse Detection |
| PSTN | Public Switched Telephone Network |
| PSU | Power Supply Unit |

# Q

| | |
|---|---|
| QoS | Quality of Service |
| Q-SIG | Q-Signalling |

# R

| | |
|---|---|
| RIP | Routing Information Protocol |
| RTCP | Real-time Transmission Control Protocol |
| RTP | Real-time Transmission Protocol |

# S

| | |
|---|---|
| SCM | Switch and Conference Module |
| SDP | Session Description Protocol |
| SG | Signalling Gateway |
| SGCP | Simple Gateway Control Protocol |
| SIGTRAN | Signalling Transport |
| SIO | Serial Input/Output |
| SIP | Session Initiation Protocol |
| SLI | Single Line Interface |
| SLT | Single Line Telephone |
| SMDR | Station Message Detail Recording |
| SMTP | Simple Mail Transfer Protocol |
| SoL | Server optimized Linux |
| STA | Spanning Tree Algorithm |
| STP | Signalling Transfer Point |
| SVMi | Samsung Voice Mail (integrated) |

# T

| | |
|---|---|
| TAPI | Telephony Application Programming Interface |
| TCAP | Transmission Control Application Part |
| TCP | Transmission Control Protocol |
| TEPRI | T1/E1/PRI |
| TRK | Trunk |

# U

| | |
|---|---|
| UA | User Agent |
| UAC | User Agent Client |
| UART | Universal Asynchronous Receiver and Transmitter |
| UAS | User Agent Server |
| UCD | Uniform Call Distribution |
| UDP | User Datagram Protocol |
| UPS | Uninterruptible Power System |
| USB | Universal Serial Bus |

# V

| | |
|---|---|
| VDIAL | Voice Dial |
| VLAN | Virtual LAN |
| VoIP | Voice over Internet Protocol |
| VPM | Voice Processing Module |
| VPN | Virtual Private Network |

# W

| | |
|---|---|
| WAN | Wide Area Network |
| WBS | Wireless Base Station |
| WIM | WAN Interface Module |
| WLI | Wireless LAN Interface |

# X

| | |
|---|---|
| xDSL | x-Digital Subscriber Line |

**Samsung Business Communications**
Brookside Business Park, Greengate, Middleton, Manchester M24 1GS