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G1E+ Hybrid IP Telephone System

***Programming
Manual***

Rev 2.2a

Notification

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Table of Contents

| | |
|--|-----------|
| Notification | 2 |
| Table of Contents | 3 |
| Introduction | 12 |
| New Systems..... | 12 |
| Basic Programming Commands..... | 12 |
| Alphanumeric Entry:..... | 13 |
| DK6 Key Telephone – Key Layout (36 Button)..... | 14 |
| DK6 Key Telephone – Key Layout (18 Button)..... | 14 |
| Program 01-tk-IP : Day Ringing And Ringing Line Preference Assignment | 15 |
| Program 02-tk-IP : Night Ringing And Ringing Line Preference Assignment | 15 |
| Program 03-01-IP : Door Phone Ringing Assignment | 16 |
| Program 04-gp-IP : Console Operator Assignment | 16 |
| Program 05-01-IP : System Timing Parameters – 01 | 17 |
| 01. Hold Recall Time..... | 17 |
| 02. Exclusive Hold Recall Time..... | 17 |
| 03. Hold Recall Timeout..... | 17 |
| 04. DISA & ECF Access Delay Time - Day..... | 18 |
| 05. Busy Remind Cycle Time (Off-Hook Ringing)..... | 18 |
| 06. Pause Time..... | 18 |
| 07. DTMF Generation Time..... | 18 |
| 08. Call Forward No Answer Transfer Time..... | 18 |
| Program 05-02-IP : System Timing Parameters – 02 | 19 |
| 01. SLT Dial Tone Timeout..... | 19 |
| 02. SLT Inter-Digit Timeout..... | 19 |
| 03. Auto Redial Access Time – PSTN Lines..... | 19 |
| 04. SLT Release Signal Time..... | 19 |
| 05. PSTN Line Flash Time - Key Phone & Analog Phone..... | 20 |
| 06. SLT Hold Signal Time..... | 20 |
| 07. Ring On Time..... | 20 |
| 08. Ring Off Time..... | 20 |
| Program 05-03-IP : System Timing Parameters – 03 | 21 |
| 01. Make/Break Ratio..... | 21 |
| 02. Automatic Trunk Search..... | 21 |
| 03. Intercom Call Signalling Method..... | 21 |
| 04. PABX (Centrex) Outgoing Code: (Refer to Program 35-TK-01)..... | 21 |
| 05. Toll Access Code..... | 22 |
| 06. Station Numbering Plan..... | 22 |
| 07. Internal Dial Tone Pattern..... | 22 |
| 08. Door Phone Ring Pattern..... | 22 |
| Program 05-04-IP : System Timing Parameters – 04 | 23 |
| 01. System Baud Rate Setting..... | 23 |

| | |
|--|-----------|
| 02. Dial 9 Flag..... | 23 |
| 03. Action for Call Duration Limiting..... | 23 |
| 04. 12/24 Hours Clock..... | 24 |
| 05. SLT Hook Flash Answer Delay..... | 24 |
| 06. Speed Dialing Distribution..... | 24 |
| 07. Single Digit Intercom..... | 24 |
| 08. SLT Message Waiting Method..... | 25 |
| Program 05-05-IP : System Timing Parameters – 05..... | 26 |
| 01. Wake Up Call..... | 26 |
| 02. Reserved..... | 26 |
| 03, 04. Speed Dial Unrestricted - 1, 2..... | 26 |
| 05. Name Function..... | 27 |
| 06. Reserved..... | 27 |
| 07. Auto Redial Attempts..... | 27 |
| 08. Auto Redial Pause Time..... | 27 |
| Program 05-06-IP : System Timing Parameters – 06..... | 28 |
| 01. Transfer Busy Recall Time..... | 28 |
| 02. Transfer Idle Recall Time..... | 28 |
| 03. ISDN Audio Coding (a-law orµ- law)..... | 28 |
| 04. Polarity Reversal..... | 29 |
| 05. Operator Code..... | 29 |
| 06. Unsupervised Conference & ECF Time Setting..... | 29 |
| 07. Hold Feature for SLT..... | 29 |
| 08. Station Hunting Group - Ring Method:..... | 29 |
| Program 05-07-IP : System Timing Parameters – 07..... | 30 |
| 01. Intercom Searching..... | 30 |
| 02. Toll Override Prevention from Quick Dial..... | 30 |
| 03. Paging Alert Tone..... | 30 |
| 04. DISA Recall To Console - No Dialing..... | 30 |
| 05. Key Phone Toll Override Prevention..... | 31 |
| 06. SMDR Digit Mask..... | 31 |
| 07. CO Line Guard Timer..... | 31 |
| 08. Reserved..... | 31 |
| Program 05-08-IP : System Timing Parameters – 08..... | 32 |
| 01. Ring Hunt Time..... | 32 |
| 02. DSS Access to Other Trunk Group..... | 32 |
| 03. SLT Camp on Time..... | 32 |
| 04. Console of DISA Transfer Group for No Answer..... | 33 |
| 05. SLT Programming Digit..... | 33 |
| 06. DISA Transfer Time No Answer..... | 33 |
| 07. DISA Transfer Time - No Digits Dialed..... | 33 |
| 08. Music Source Selection..... | 34 |
| Program 05-09-IP : System Timing Parameters – 09..... | 35 |
| 02. Console Queuing..... | 35 |
| 03. Clear Forward Signal (Loop Disconnect) Detection..... | 35 |
| 04. DISA Busy Tone Detection..... | 36 |
| 05. Reserved..... | 36 |
| 06. ACD-1 Enable Time..... | 36 |
| 07. ACD-1 Segment 2 Recall Time..... | 36 |
| 08. ACD-1 Release Time..... | 36 |

| | |
|---|-----------|
| Program 05-10-IP : System Timing Parameters – 10..... | 37 |
| Program 05-11-IP : System Timing Parameters – 11..... | 38 |
| 01. DTMF Caller ID Leading Digit..... | 38 |
| 02. Number of DISA Passwords..... | 38 |
| 03. Select Music on Hold or Ring Back Tone..... | 38 |
| 04. DISA & ECF Access Delay Time – Night..... | 38 |
| 05: DISA Special Function Access..... | 39 |
| 06. DISA Re-check Times To Station/Console..... | 39 |
| 07. Door Phone Ringing Time..... | 39 |
| 08. DISA Single Digit Dialing | 39 |
| Program 05-12-IP : System Timing Parameters – 12..... | 40 |
| 01. Call Transfer Method – Key Telephone..... | 40 |
| 02. Reserved | 40 |
| 03. Exclusive Hold Capability..... | 40 |
| 04. Door Relay Activation Time..... | 40 |
| 05. Voice Mail Call Forward Protocol Selection and Muting Leading Digits..... | 41 |
| 06. Linear / Circular Trunk Group Access..... | 41 |
| 07. LED Indication of Check In / Check Out..... | 42 |
| 08. Reserved..... | 42 |
| Program 05-13-IP : System Timing Parameters – 13..... | 43 |
| 01. Intercom Hot Key Dialing..... | 43 |
| 02. Immediate SMDR Output | 43 |
| 02. Caller ID Buffer Block Size..... | 43 |
| 04. Reserved..... | 44 |
| 05. Caller ID Record Storing Method for LCD Phones..... | 44 |
| 06. CTI-Trunk Status Report..... | 44 |
| 07. Least Cost Routing – Weekly Holiday 1..... | 44 |
| 08. Least Cost Routing – Weekly Holiday 2..... | 44 |
| Program 05-14-IP : System Timing Parameters – 14..... | 45 |
| 01. SLT LCR Switch on Delay for PSTN..... | 45 |
| 02. Reserved..... | 45 |
| 03. Reserved..... | 45 |
| 04. Reserved..... | 45 |
| 05. DISA DTMF Detect Delay Time..... | 45 |
| 06. CLI Delay Ring Time..... | 45 |
| 07. Reserved..... | 45 |
| 08. Reserved..... | 45 |
| Program 05-15-IP : System Timing Parameters – 15..... | 46 |
| 01. Company Greeting Time..... | 46 |
| 02. ISDN FAX protocol..... | 46 |
| 03. Reserved..... | 47 |
| 04. Reserved..... | 47 |
| 05. Reserved..... | 47 |
| 06. Reserved..... | 47 |
| 07. Reserved..... | 47 |
| 08. Reserved..... | 47 |
| Program 05-16-IP : System Timing Parameters – 16..... | 48 |
| 01. Midnight Reset..... | 48 |

| | |
|--|-----------|
| 02. Reserved..... | 48 |
| 03. DISA Single Digit Dialing Level..... | 48 |
| 04. VMU Language Service..... | 49 |
| 05. Reserved..... | 49 |
| 06. Reserved..... | 49 |
| 07. ACP Data Output Format..... | 49 |
| 08. Reserved..... | 49 |
| Program 05-17-IP : System Timing Parameters – 17..... | 50 |
| 01. Reserved..... | 50 |
| 02. Voice Compression..... | 50 |
| 03. Extension Number Announcement for DISA..... | 50 |
| 04. DISA & ECF Access Delay Time – Lunch..... | 50 |
| 05. DTMF Caller ID Leading Digits..... | 51 |
| 06. DTMF CLI Trailing Digits..... | 51 |
| 07. Call Block or Transfer to Voice Mail according to Caller ID Message..... | 51 |
| 08. Minimum Mail Box Record Time..... | 52 |
| Program 05-18-IP : System Timing Parameters – 18..... | 53 |
| 01. Reserved..... | 53 |
| 02. Hotel Alarm..... | 53 |
| 03. Dial Out History Feature..... | 53 |
| 04. Reserved..... | 54 |
| 05. Reserved..... | 54 |
| 06. Play Transfer message for ECF..... | 54 |
| 07. High Frequency Level of DTMF Generator..... | 54 |
| 08. Low Frequency Level of DTMF Generator..... | 54 |
| Program 05-19-IP : System Timing Parameters – 19..... | 55 |
| 01. Reserved..... | 55 |
| 02. Reserved..... | 55 |
| 03. Reserved..... | 55 |
| 04. VMU Silence Detection..... | 55 |
| 05. Reserved..... | 55 |
| 06. Reserved..... | 55 |
| 07. Reserved..... | 55 |
| 08. Reserved..... | 55 |
| Program 06-IP : Relay Assignment..... | 56 |
| Program 07-Gp-IP : Flexible Key Group Assignment..... | 57 |
| DK6 – 18 Button Layout..... | 57 |
| DK6 – 36 Button Layout..... | 58 |
| Program 08-Gp-IP : Flexible DSS Console Key Group Assignment..... | 60 |
| Program 09-nnn-DP : System Speed Dial..... | 61 |
| Program 10-GP-IP : Intercom or DISA Single Digit Assignment..... | 62 |
| Program 11-IP : Date and Time Setting..... | 63 |
| Program 12-nn : System Alarm Clock..... | 63 |
| Program 13-nn : Password..... | 64 |

| | |
|---|-----------|
| Program 14-01-IP : SMDR Specifications..... | 65 |
| 01. Call Duration Start Time | 65 |
| 02. Record Incoming Calls | 65 |
| 03. Record Local Calls..... | 65 |
| 04. Record Incoming Calls No Answer..... | 65 |
| 05. Print out the Title..... | 65 |
| 06. Number of Records between the Title..... | 66 |
| 07. Reserved..... | 66 |
| 08. Polarity Reversal | 66 |
| Program 17-nn : Forced Account Code..... | 69 |
| Program 18-nn-TK : Assign Toll Plan To Trunk Lines..... | 70 |
| Program 20-nn- : Set Day – Time / Lunch Time Schedule..... | 71 |
| Program 25 : Reset Data to System Default..... | 72 |
| Program 29-tk-IP : Trunk Specifications – 2..... | 73 |
| 01. Trunk Receive Gain..... | 73 |
| 02. ACD-1 Function Enable..... | 73 |
| 03. Trunk Transmit Gain..... | 73 |
| 04. Set Ring Frequency (DK Handsets)..... | 74 |
| 05. Allow Audible Ring for Incoming Calls..... | 74 |
| 06. Polarity Reverse Detection – Individual trunk-Outgoing..... | 74 |
| 07. CO Delayed Ring Timer to Hunting Group..... | 74 |
| 08. CO Delayed Ring Overflow Hunting Group..... | 74 |
| Program 35-tk-IP : Trunk Specifications – 1..... | 75 |
| 01. Trunk Type (CO / PABX)..... | 75 |
| 02. Trunk Signal (Pulse / DTMF)..... | 75 |
| 03. External Call Forward – ECF..... | 76 |
| 04. DISA / ECF (Direct Inward System Access / External Call Forward)..... | 76 |
| 05. Pick Up..... | 76 |
| 06. Loud Bell..... | 77 |
| 07. Inward Line Ringing Method Assignment (Day)..... | 77 |
| 08. Inward Line Ringing Method Assignment (Night)..... | 78 |
| Trunk Name Entry..... | 78 |
| Program 36-gp-tk : Trunk Group Assignments..... | 79 |
| Program 37-tk : Busy Out Trunks..... | 80 |
| Program 38-gp-tk : Dial 87 Trunk Group Assignments..... | 81 |
| Program 39-IP : Sensor Assignments..... | 82 |
| Program 40-stn-IP : Station Class of Service – 1..... | 83 |
| 01. Override Level..... | 83 |
| 02. Monitor Level..... | 83 |
| 03: Limit call duration..... | 83 |
| 04. Station Loud Bell..... | 84 |
| 05. Access Paging..... | 84 |
| 06. Receive Paging..... | 84 |

| | |
|---|-----------|
| 07. Security Code Status..... | 84 |
| 08. Forced Account Code..... | 84 |
| Program 41-stn-IP : Station Specifications..... | 85 |
| 01. Station group..... | 85 |
| 02. Flexible key group assignments for Key phone..... | 85 |
| 03. Shift Key Group for Key phone..... | 85 |
| 04. Dial 9 trunk group/ SLT Port as MOH Source..... | 86 |
| 05. Toll plan - Day..... | 86 |
| 06. Toll plan - Night..... | 86 |
| 07. Port Number..... | 86 |
| Program 42-stn-IP : Register Memory Blocks for Individual Speed Dial..... | 87 |
| Program 43-cn-IP : Port Specifications..... | 88 |
| 01. Station Number..... | 88 |
| 02. Equipment Type..... | 88 |
| 03. Flexible DSS Key Group Assignments for DSS Console..... | 89 |
| 04. Reserved..... | 89 |
| 05. Voice Mail Box Capacity-Virtual Mail Box..... | 89 |
| 06. Maximum Message Length:..... | 90 |
| Extension Name Entry..... | 90 |
| Program 44-stn-IP : Station Class of Service – 2..... | 91 |
| 01. System Alarm..... | 91 |
| 02. Hold Feature..... | 91 |
| 03. Call Split..... | 91 |
| 04. Manual Line..... | 92 |
| 05. Headset Feature..... | 92 |
| 06. Use Engineering Password..... | 92 |
| 07. Reserved..... | 92 |
| 08. Station Alarm Signal..... | 92 |
| Program 45-stn-IP : Station Class of Service – 3..... | 93 |
| 01. Intercom Call Limitation..... | 93 |
| 02. ACP Hear BGM at idle state..... | 93 |
| 03. Incremental Increase Ringing Volume..... | 93 |
| 04. Allow Trunk Access..... | 93 |
| 05. Intercom Calls to Different Station Groups..... | 94 |
| 06. Receive Break Alarm..... | 94 |
| 07. Allow Unrestricted Speed Dial Access..... | 94 |
| 08. Record Station's SMDR Data..... | 94 |
| Program 46-stn-IP : Station Class of Service – 4..... | 95 |
| 01. Dial [87] Trunk Group..... | 95 |
| 02. Message Waiting Level..... | 95 |
| 03. Automatic Answer Capability (Keyphone) / Internal CLI (Caller ID) Function..... | 96 |
| 04. DISA/ISDN In Dial Recall Capability..... | 96 |
| 05. Maximum Re-Transferred Times..... | 96 |
| 06. Door Unlock / DND / CFWD Access..... | 96 |
| 07. ACP Door Phone Hunt Group / Permanent Call Forward Group – No Answer..... | 97 |
| 08. SLT Ring Cadence Settings..... | 97 |
| Program 47-stn-IP : Hot Line Assignment..... | 98 |

| | |
|---|------------|
| Program 48-stn-IP : Station Class of Service – 5 | 99 |
| 01. Reserved..... | 99 |
| 02. Reserved..... | 99 |
| 03. Group Listen Feature..... | 99 |
| 04. Reserved..... | 99 |
| 05. Reserved..... | 99 |
| 06. Reserved..... | 99 |
| 07. Reserved..... | 99 |
| 08. Reserved..... | 99 |
| Program 50-stn-IP : Station Class of Service – 6 | 100 |
| 01. ACP Warning Signals..... | 100 |
| 02. Call Forward Indication:..... | 100 |
| 03. ISDN Incoming Call Display Type-Digital Phone:..... | 100 |
| 04. CTI-Extension Status Report..... | 101 |
| 05. VMS Leading Digits For Intercom Calls..... | 101 |
| 06. ACP Door Unlock Relay..... | 101 |
| 07. ACP Door Open Control..... | 101 |
| 08. ACP Phone Operation / Hotel Alarm Type..... | 102 |
| Program (51 to 59)-code-IP : Toll Plans – Allowed Digits – Class 1 to 9 | 103 |
| Program (61 to 66)-code-IP : Toll Plans – Restricted Digits – Class 1 to 6 | 104 |
| Program 67-gp-IP : Hunt Group Pilot Number | 105 |
| 01. Hunting Group Pilot Number..... | 105 |
| 02. Hunting Group Ringing Method..... | 105 |
| Program 68-gp-IP : Hunt Group Assignment – Day | 106 |
| Program 69-gp-IP : Station Hunt Group Assignment – Night | 107 |
| Program 70-Cd-IP : ISDN Interface Specifications Program – G1E | 108 |
| Program 71-Cd-IP : Calling Line Identification Presentation | 109 |
| Program 72-St : ISDN Called Party Extension Number Assignment | 110 |
| Program 73-St : ISDN Extension Sub-Address Assignment | 110 |
| Program 75-Num-IP : LCR - Analysis Table | 112 |
| Program 76-Num-Tm : LCR – Routing Table | 113 |
| Program 77-Num : LCR – Modifying Table | 114 |
| Program 78-stn-IP : Station Class of Service – 6 | 115 |
| 01. LCR Routing Level..... | 115 |
| 02. LCR – Direct Access a Trunk..... | 115 |
| 03. Reserved..... | 115 |
| 04. Call Forward Busy Transfer Group..... | 116 |
| 05. External Notification – Voicemail..... | 116 |
| 06. ISDN Calling Line Identification Presentation..... | 116 |

| | |
|---|------------|
| 07. Ringing Line Preference..... | 116 |
| 08. Reserved..... | 116 |
| Program 83-st-IP : Register Memory Block for CLI history buffer..... | 117 |
| Program 84-IP : Home Area Code..... | 118 |
| Program 85-nn-IP : Overlay Area Code..... | 118 |
| Program 86-nnn-IP : Office Code Redial Pattern..... | 119 |
| Program 87-CN-IP : ASSIGN DOOR PHONE FOR KEY CARD..... | 120 |
| Program 88-DP : REGISTER KEY CARD..... | 121 |
| Program 89-CN-IP : DELETE KEY CARD..... | 122 |
| Program 91-TM : ACP TIME LOCK – Assign Time..... | 123 |
| Program 92-CN : ACP TIME LOCK – Assign Card..... | 123 |
| Program 93 : Not Used in North America..... | 124 |
| Program 94-tk-IP : Lunchtime Ringing And Ringing Line Preference Assignment..... | 125 |
| Program 95-tk-IP : Trunk Specifications – 3..... | 126 |
| 01. Detect Fax signal | 126 |
| 02. Reserved..... | 127 |
| 03. Reserved..... | 127 |
| 04. DISA & ECF Lunch Time Enable..... | 127 |
| 05. Reserved..... | 127 |
| 06. Reserved..... | 127 |
| 07. Reserved..... | 127 |
| 08. Reserved..... | 127 |
| Programming Cross Reference..... | 128 |
| Incoming Calls..... | 128 |
| Ringing Assignment..... | 128 |
| Outgoing Calls..... | 128 |
| Dial '9'..... | 128 |
| PABX Outgoing Code..... | 128 |
| Trunk Specifications..... | 128 |
| Speed Dial..... | 130 |
| Auto-Redial..... | 130 |
| Intercom Calls..... | 130 |
| Intercom Call Signalling..... | 130 |
| Step Call..... | 130 |
| Dial Tone Pattern..... | 130 |
| Single Digit Intercom..... | 130 |
| Direct Station Select..... | 130 |
| Dial 0 (Call Operator)..... | 130 |
| Intercom Dialing Restriction..... | 130 |
| Busy/During Conversation..... | 131 |
| Hold and Hold Recall..... | 131 |

| | |
|---|-----|
| Busy Remind / Camp-On..... | 131 |
| Call Split..... | 131 |
| Transfer..... | 131 |
| Message Waiting Level..... | 131 |
| Override..... | 131 |
| DISA..... | 131 |
| Night Service..... | 132 |
| Group Assignments..... | 132 |
| Console Assignment..... | 132 |
| Flexible Key Group Assignments..... | 132 |
| Dial '9/0' Trunk Groups..... | 132 |
| Dial '87' Trunk Groups..... | 132 |
| Group Assignment for stations (Page Zone, Pick up, Single digit)..... | 132 |
| Call Control..... | 133 |
| Toll Restriction..... | 133 |
| Forced Account Codes..... | 133 |
| Call Limit..... | 133 |
| Passwords..... | 133 |
| Station Lock/Unlock..... | 133 |
| Busy out a trunk..... | 133 |
| Intercom Dialing restrictions..... | 133 |
| System Clock..... | 134 |
| Date and Time Setup..... | 134 |
| System Alarm..... | 134 |
| Wake Up calls..... | 134 |
| Station Numbering..... | 134 |
| Single Line Telephone..... | 134 |
| Miscellaneous..... | 134 |
| Monitor..... | 134 |
| Paging..... | 134 |
| Call Forward No Answer Transfer Time..... | 134 |
| Hot Line..... | 135 |
| Optional Services..... | 135 |
| Door phone & Door switch..... | 135 |
| Voice Mail Integration..... | 135 |
| ACD-1 operation..... | 136 |
| Clear down of unanswered calls..... | 136 |
| DISA and Auto Attendant operation..... | 137 |
| Clear down of unanswered calls..... | 137 |
| Recording DISA Messages..... | 138 |
| Programming Single Digit DISA..... | 139 |
| Installing ACP's..... | 139 |
| About security..... | 139 |
| How can I use an ACP?..... | 140 |
| How to set up as a door phone..... | 141 |
| How to unlock the door from the ACP using Forced Account Codes..... | 141 |

Introduction

The manual contains all the parameters that are programmable inside the G1E+ Hybrid IP Telephone System.

New Systems

We recommend that all new systems have the system memory reset before system programming takes place. This ensures that any extraneous information that may be present in system memory is erased and that the system database will not be subject to existing corrupt data.

To reset the database in G1E+, from a LCD display phone, enter programming by pressing [PRG], [2], Enter Password if programmed (new systems will not have a system password). Press [SAVE] key. The LCD display will show as follows:

| |
|-------------------------------|
| PROGRAM MODE: __ (01 – 95) |
|-------------------------------|

Then enter [2] [5] and press [SAVE]. You will be in Program Mode 25-01. The display will show:

| |
|-------------------------------|
| 25- Reset Data 0-9 Default |
|-------------------------------|

Enter [2] to reset all data. The phone will beep and return to the previous screen.

You may begin database entry at this point or exit system programming by pressing [SPK] key or by lifting and replacing the handset.

A station can access a CO trunk and talk on a phone while entering system programming mode. This allows a technician to guide a customer into program mode and make minor changes by programming the system data during the conversation.

Basic Programming Commands

Note: Keys listed between [] indicate the physical location on a telephone set. Keys listed between { } indicate key functions when in programming.

These commands are active while in the system programming mode

[DSS 36]{PRG}: Moves to the Top Level Programming Mode Display (does not save information entered into any field unless [SAVE] is pressed first).

[DSS 35]{SAVE}: Commits the data that is shown on the LCD display into the system database.

[DSS 1]{PREV}: Moves to the previous section of any multiple part form.

[DSS 2]{NEXT}: Moves to the next section in any multiple part form.

[DSS 3]{LEFT}: Moves the programming cursor to the left position.

[DSS 4]{RIGHT}: Moves the programming cursor to the right position.

[DSS 34]{DND/CN}: Enters a Wild Card (don't care) into Account Codes or Toll control entries. LCD will display d (lower case letter "d") to indicate don't care entry.

[HOLD]{PAUSE}: Inserts a Pause when programming a Speed Dial Entry or for Voice Mail Programming. LCD will display p (lower case "p") to indicate a Pause entry.

[TRF/FL]{FLASH}: Enters a FLASH command as part of a Speed Dial Entry. LCD will display F (upper case "F") to indicate a Flash command. This key also means clears a digit during other entries (Passwords, etc).

[DSS 31]{MSG}: (Pulse to Tone) Enters a command to convert from pulse dialing to DTMF dialing into a Speed Dial Entry. LCD will display T (upper case "T") to indicate a tone conversion command.

[DSS39]{MIC/AT}: CHANGE key. Depending on the form, it will toggle through available Programming parameters.

[TRF/FL]{CLR DIGIT}: Enters a FLASH command as part of a speed dial number. This key also means clears a digit during other entries (Passwords, etc).

[SPK]{EXIT}: Exits Programming. Returns telephone to normal idle mode.

[DSS 37]{REDIAL}: **Clears all** digits on an entry such as speed dial or account codes.

Alphanumeric Entry:

The following table indicates the capabilities of the name programming functions if they are selected on the system. System Speed Dial, Personal Speed Dial, Stations, CO Lines and Sensors may be programmed with names.

| | | | |
|-------------|-------------------------|-------------|-------------------|
| Key 1 = | (Blank Space) – 1 | Key 2 = | A - B - C – 2 |
| Key 3 = | D - E - F – 3 | Key 4 = | G - H - I – 4 |
| Key 5 = | J - K - L – 5 | Key 6 = | M - N - O – 6 |
| Key 7 = | P - Q - R - S – 7 | Key 8 = | T - U - V – 8 |
| Key 9 = | W - X - Y - Z – 9 | Key 0 = | (Period). : & – 0 |
| Key # = | () \$ # | Key * = | (Dash) / ! * |
| DSS Key 1 = | Backspace Cursor (Left) | DSS Key 2 = | Cursor Forward |

If an entry is made that is not within valid system parameters, the system will not accept the entry when [SAVE] is pressed. The Speaker on the programming set will return a busy tone and the LCD Display will place the programming cursor under the invalid entry. You may make corrections and press [SAVE] again. If multiple errors are made, the system will continue to return you to the illegal entries until they are corrected.

It is not necessary to re-enter existing information on a multi-item form. You need enter only the information that is to be changed. You may move the cursor to the left or right in order to access only the specific entry that you want to change. You may press [SAVE] without regarding for the placement of the cursor on the LCD display.

DK6 Key Telephone – Key Layout (36 Button)

1 2 ABC 3 DEF Dss 37 REDIAL

4 GHI 5 JKL 6 MNO Dss 38 SPEED

7 PQRS 8 TUV 9 WXYZ Dss 39 MIC/AT

* 0 OPER # SPK

TRF/FL VOL HOLD

| | | | | | |
|---------------|---------------------|------------------|------------------|----------------|---------------|
| MSG Dss 31 | Caller ID Dss 32 | PAGING Dss 33 | DND/CN Dss 34 | SAVE Dss 35 | PRG Dss 36 |
| 25 Dss 25 | 26 Dss 26 | 27 Dss 27 | 28 Dss 28 | 29 Dss 29 | 30 Dss 30 |
| 19 Dss 19 | 20 Dss 20 | 21 Dss 21 | 22 Dss 22 | 23 Dss 23 | 24 Dss 24 |
| 13 Dss 13 | 14 Dss 14 | 15 Dss 15 | 16 Dss 16 | 17 Dss 17 | 18 Dss 18 |
| 7 Dss 7 | 8 Dss 8 | 9 Dss 9 | 10 Dss 10 | 11 Dss 11 | 12 Dss 12 |
| 1 Dss 1 | 2 Dss 2 | 3 Dss 3 | 4 Dss 4 | 5 Dss 5 | 6 Dss 6 |

DK6 Key Telephone – Key Layout (18 Button)

1 2 ABC 3 DEF Dss 37 REDIAL

4 GHI 5 JKL 6 MNO Dss 38 SPEED

7 PQRS 8 TUV 9 WXYZ Dss 39 MIC/AT

* 0 OPER # SPK

TRF/FL VOL HOLD

| | | | | | |
|---------------|---------------------|------------------|------------------|----------------|---------------|
| MSG Dss 31 | Caller ID Dss 32 | PAGING Dss 33 | DND/CN Dss 34 | SAVE Dss 35 | PRG Dss 36 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 7 Dss 7 | 8 Dss 8 | 9 Dss 9 | 10 Dss 10 | 11 Dss 11 | 12 Dss 12 |
| 1 Dss 1 | 2 Dss 2 | 3 Dss 3 | 4 Dss 4 | 5 Dss 5 | 6 Dss 6 |

Program 01-tk-IP : Day Ringing And Ringing Line Preference Assignment

01-tk-IP FLX DAY
111 000 000 000

tk=Trunk No. (01-12), IP=Item Pointer (01-26)
Assigned station number

General:

This program assigns each incoming line to ring the programmed stations during Day Service. Program Mode 35-tk-07 assigns ringing type for each trunk. The ringing methods can be:

LINEAR (ring the first available station),

CIRCULAR (Ring the next station following the last station who just answered an incoming call),

HUNT (Ring the first assigned station for a set period of time (program mode 05-08-01) then if no answer ring the next ring assigned station then the next etc.) or

COMMON AUDIBLE (All stations will ring simultaneously).

An overflow Ring Hunt Group can be assigned to make additional stations ring after a time interval in addition to this ring assignment. See program Mode 29-07/08.

Description:

1. This program sets Day Time ringing.
2. The station number length 2,3,4 digits will be set by system programming (Mode 05-03-06).
3. A total of 26 stations can be assigned to ring for each trunk.
4. If the location not assigned to a station, the location value is set to " 0 ".
5. To clear all entries press **[REDIAL]**.
6. Lunch ringing is programmed in Mode 94.

Program 02-tk-IP : Night Ringing And Ringing Line Preference Assignment

02-tk-IP FLX NIG
111 000 000 000

tk=Trunk No. (01-12), IP=Item Pointer (01-26)
Assigned station number

General:

This program assigns each incoming line to ring the programmed stations during Night Service. Program Mode 35-tk-08 assigns ringing type for each trunk. The ringing methods can be:

LINEAR (ring the first available station),

CIRCULAR (Ring the next station following the last station who answered an incoming call),

HUNT (Ring the first assigned station for a set period of time (program mode 05-08-01) then if no answer ring the next ring assigned station then the next etc.) or

COMMON AUDIBLE (All stations will ring simultaneously).

An overflow Ring Hunt Group can be assigned to make additional stations ring after a time interval in addition to this ring assignment. See program Mode 29-07/08.

Description:

1. This program sets Night Time ringing.
2. The station number length 2,3,4 digits will be set by system programming (Mode 05-03-06).
3. A total of 26 stations can be assigned to ring for each trunk.
4. If the location is to be assigned to no station, the location value is set to 0.
5. To clear all entries press **[REDIAL]**.
6. Lunch ringing is programmed in Mode 94.

Program 03-01-IP : Door Phone Ringing Assignment

| |
|----------------------------------|
| 03-01-IP Door 111 112 113 114 |
|----------------------------------|

IP= Item Pointer (01-26)
Assigned station number

General:

This program assigns the Door Phone/s to ring the programmed stations.

Description:

1. To assign an ACP or digital door phone to follow Mode 03 it must be set to "d" in mode 46-st-07. Otherwise it will ring the stations assigned in the Hunt Group allocated in mode 46-st-07
2. Twenty six stations can be assigned to ring for the door phone.
3. To clear all entries press **[REDIAL]**.
4. Door phone ringing time is set in Mode 05-11-07.
5. Door Relay Unlock Time is set in Mode 05-12-04.
6. Door phone Ringing frequency is set in Mode 05-03-08.

Program 04-gp-IP : Console Operator Assignment

| |
|-------------------------------------|
| 04-gp-IP Console 111 000 000 000 |
|-------------------------------------|

gp = Station group (01-08) IP = (Item Pointer) 01-04
Assigned station number (2 to 4 digits)

General:

This program permits the selection of the consoles in each station group. Consoles are stations that can program System speed dials, Record system Voice messages, receive hold recalls and ring when callers dial 9/0 for the operator. For DISA calls only the ring type is Common Audible otherwise Linear is standard

Description:

1. There are 8 console groups available. Four stations can be set in each group
2. Assign either a station or the pilot number of a hunting group as the console(s).
4. The first assigned station is the master console if a pilot number is assigned here.
5. Only the Console can operate some special Voice Mail features.
6. To clear all entries press **[REDIAL]**. Do this in ALL unused groups.

Program 05-01-IP : System Timing Parameters – 01

05-01-IP SYS PAR IP=Item Pointer (01-08)
 1 1 1 1 4 2 2 1 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|------------|--------------------------------------|
| 01 | 0-9 | 1= 60 sec. | Hold Recall Time |
| 02 | 0-9 | 1= 60 sec. | Exclusive Hold Recall Time |
| 03 | 0-9 | 1= 60 sec. | Hold Recall Timeout |
| 04 | 0-9 | 1= 2 sec. | DISA & ECF Access Delay Time - Day |
| 05 | 0-9 | 4= 8 sec. | Busy Remind Cycle Time |
| 06 | 0-9 | 2= 800 ms | Pause Time |
| 07 | 0-9 | 2= 83 ms | DTMF Generation Time |
| 08 | 0-9 | 1= 20 sec. | Call Forward No Answer Transfer Time |

01. Hold Recall Time

This parameter sets the duration from the time the line is put on Hold until the held call recalls the station.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|------|------|
| 05-01-01 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 253 | None | sec. |

02. Exclusive Hold Recall Time

This parameter sets the time duration from the line is put on Exclusive Hold to the held call recalls the station.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|------|------|
| 05-01-02 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 253 | None | sec. |

03. Hold Recall Timeout

This parameter sets the timer between a held call recalling to a holding or transferring station (i.e., 05-01-01 or 05-01-02 expires) and then recalling to the console if unanswered.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|------|------|
| 05-01-03 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 253 | None | sec. |

04. DISA & ECF Access Delay Time - Day

This parameter sets the timer that a DISA/ECF (External Call Forwarding) trunk will ring assigned stations (set by Program 01-tk-IP, 02-tk-IP) prior to be connected to Auto Attendant (DISA) or another Trunk (ECF) in Day mode. Stations can answer the incoming trunk before it is connected to Auto Attendant or another Trunk.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|---|----|----|----|-----|-----|------|
| 05-01-04 | 0 | 2 | 4 | 6 | 8 | 15 | 30 | 60 | 120 | 254 | sec. |

Note:

0 = Incoming trunk immediately connects to Auto Attendant or another trunk without ringing assigned stations.

1-9 = Incoming trunk connects to Auto Attendant or another trunk after 2-254 seconds ringing.

Also see Program 05-11-04 for Night delay and Program 05-17-4 for Lunch delay.

05. Busy Remind Cycle Time (Off-Hook Ringing)

This parameter sets the timer an incoming trunk periodically rings a busy station. It is used to remind the busy station that another trunk is waiting on the line. A muted, one-second ring will be given to the station through the speaker to indicate the waiting call. The ring will be repeated at intervals defined by this busy remind cycle time.

This parameter also sets the timing for the SLT Camp-On feature (see Mode 05-08-03 SLT Camp On Time) and the camp on tone for key stations.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|---|----|----|----|-----|-----|------|
| 05-01-05 | 0 | 2 | 4 | 6 | 8 | 15 | 30 | 60 | 120 | 254 | sec. |

06. Pause Time

This parameter sets the system pause time duration for speed dial entry, trunk access time and voice mail call forwarding tone delay.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 05-01-06 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | ms. |

07. DTMF Generation Time

This parameter sets DTMF generation time. It may need to be lengthened to access some Voice Mail or answering machines.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|------|
| 05-01-07 | 48 | 64 | 80 | 100 | 114 | 132 | 156 | 164 | 180 | 196 | ms. |

08. Call Forward No Answer Transfer Time

This parameter sets the amount of time a call is ringing a station (set Call Forward No Answer) before it is transferred to another station.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|----|----|----|----|----|----|-----|------|
| 05-01-08 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | ms. |

| | | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|
| 05-02-04 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | ms. |
|----------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|

05. PSTN Line Flash Time - Key Phone & Analog Phone

This parameter sets the Flash timer at PSTN trunk line when Key Phones pressing the **[TRF/FL]** key or an analog phone makes a flash and then dials 800 while accessing an outside line. After dialing 800 the flash signal will be sent to the PSTN line and the analog phone will be reconnected to the PSTN line again.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|-----------------|----|----|-----|-----|-----|-----|-----|------|------|------|------|
| 05-02-05 | 40 | 80 | 160 | 240 | 400 | 600 | 800 | 1000 | 1200 | 1400 | ms. |
| UK, Italy, Aust | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 300 | 600 | ms. |

06. SLT Hold Signal Time

This parameter permits the selection of the Flash time from a single line telephone that the system will recognize as a Hold signal if the time is greater than this hold signal time but less than the SLT release time (Program 05-02-04)

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 05-02-06 | 70 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | ms. |

07. Ring On Time

This parameter allows the system to identify a minimum ring signal time from the PSTN line. This parameter should never be changed without a clear understanding of the operation of the feature.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 05-02-07 | 0 | 160 | 240 | 360 | 440 | 560 | 640 | 760 | 840 | 960 | ms. |

08. Ring Off Time

This parameter allows the system to identify when a ringing call has abandoned by the absence of any ring signal from the PSTN. This parameter should never be changed without a clear understanding of the operation of the feature.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 05-02-08 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Sec. |

Program 05-03-IP : System Timing Parameters – 03

05-03-IP SYS PAR IP=Item Pointer (01-08)
 1 0 0 9 0 2 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|--------------------|------------------------------------|
| 01 | 0-1 | 1= 40/60 | Make / Break Ratio |
| 02 | 0-1 | 0= Yes | Automatic Trunk Search |
| 03 | 0-1 | 0= Voice | Intercom Call Signalling Method |
| 04 | 0-9 | 9= 9 | PABX (Centrex) Outgoing Code |
| 05 | 0-9 | 1= 1 | Toll Access Code |
| 06 | 2-4 | 2= 2 digits | Station Numbering Plan |
| 07 | 0-1 | 0= Steady | Internal Dial Tone Pattern |
| 08 | 0-9 | 0= Continuous ring | Door Phone / ACP Ringing Frequency |

Description:

01. Make/Break Ratio

This parameter permits the selection of a Make/Break Ratio for Dial Pulse signalling.

| IP \ Value | 0 | 1 |
|------------|-------|-------|
| 05-03-01 | 33/66 | 40/60 |

02. Automatic Trunk Search

This parameter allows the system to search for an available trunk according to the assigned dial 9 trunk group when automatic dialing features are used; i.e., Speed Dial, Save Redial, Redial, etc.

| IP \ Value | 0 | 1 |
|------------|---------|-------------|
| 05-03-02 | Allowed | Not Allowed |

03. Intercom Call Signalling Method

This parameter selects the Intercom calling method. The user can still override this selection by dialing 3 after initiating an intercom call. Individual stations can be set to automatic microphone switch-on in mode 46-st-03 and thus override the system-wide ring method.

| IP \ Value | 0 | 1 |
|------------|------------------|-----------------|
| 05-03-03 | Voice Signalling | Ring Signalling |

04. PABX (Centrex) Outgoing Code: (Refer to Program 35-TK-01)

This parameter assigns the PABX outgoing call access code for Redial and Save Redial when the system is installed behind a PABX. It is used when Trunk Lines are set to be PABX lines in Mode 35-TK-01.

This assignment also enables the system to identify whether the user's dialing is a PABX's Intercom call or an Outgoing call for toll restrictions. This Outgoing Code can be any one digit (0,1,2,3,4,5,6,7,8,9).

05. Toll Access Code

It is the first dialing digit that will be checked as an effective Toll Call or not. This has no effect on toll control within the system. It is only used to notify SMDR that a call is Toll Call or not. Refer to Program 14-01-03. Record Local Calls. The Toll Access Code can be any one digit (0,1,2,3,4,5,6,7,8,9).

06. Station Numbering Plan

This parameter assigns the number of digits used for the station numbering plan. 2, 3, or 4 digits may be used.

| IP \ Value | 2 | 3 | 4 |
|------------|----------|----------|----------|
| 05-03-06 | 2 Digits | 3 Digits | 4 digits |

07. Internal Dial Tone Pattern

System will provide different Dial tone to Analog phone when it is off hook to notifying its status. There are four different situations which can be identified as follows:

Intercom: Normal situation without setting to DND, CFW or MW.

DND: Do Not Disturb.

CFWD: Call Forwarding

MW: Message Waiting (Some left message on the phone).

There are three different Dial Tone patterns:

Steady: Continuous Dial Tone

2-Burst: (Stutter Dial Tone): 250ms on / 250ms off / 250ms on / 1250ms off

3-Burst: 250ms on / 250ms off / 250ms on / 250ms off / 250ms on / 750ms off

Notes:

- 1) If the parameter is set to 0 or 1 then the analog phone will receive the 2-Burst tone if call forward or DND has been set for that extension.
- 2) Value 2 (and 6) is particularly designed for use when there is an external Voice Mail system connected to the system, as some Voice mail units have problems with interrupted dial tone.
- 3) Value 6 will also provide what is known as Stutter dial tone to extensions when they are left a message. This is useful where phones do not have a message light. When this is enabled as well as MW light to handsets by other methods the phones with messages will receive both Message light and stutter dial tone.

| IP | Value | Intercom | DND | CFWD | MW |
|----------|-------|----------|---------|---------|---------|
| 05-03-07 | 0 | Steady | 3-Burst | 3-Burst | Steady |
| 05-03-07 | 1 | 2-Burst | 3-Burst | 3-Burst | 2-Burst |
| 05-03-07 | 2 | Steady | Steady | Steady | Steady |
| 05-03-07 | 3 | 2-Burst | 2-Burst | 2-Burst | 2-Burst |
| 05-03-07 | 4 | Steady | 3-Burst | 3-Burst | 2-Burst |
| 05-03-07 | 5 | 2-Burst | 3-Burst | 3-Burst | Steady |
| 05-03-07 | 6 | Steady | Steady | Steady | 2-Burst |
| 05-03-07 | 7 | 2-Burst | 2-Burst | 2-Burst | Steady |

08. Door Phone Ring Pattern

This parameter allows for different ring patterns when the Door Phone button is pressed. This Parameter will also affect the ACP phone. If this mode is set to = 0 then the ACP will follow the extension ringing frequency otherwise it will follow settings in this Mode. This allows stations that to distinguish a call from an ACP/Doorphone from other calls.

| IP \ Value | 0 | 1-8 | 9 |
|------------|-----------------|-------------------------------------|-------------------------------------|
| 05-03-08 | Continuous ring | Same Ringing - 1 to 8 as DK handset | Background Music (Program 05-08-08) |

Program 05-04-IP : System Timing Parameters – 04

05-04-IP SYS PAR IP=Item Pointer (01-08)
 4 1 0 0 0 1 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------|--|
| 01 | 0-9 | 4= 9600 | System Baud Rate Setting |
| 02 | 0-1 | 1= Enable | Dial 9 Flag |
| 03 | 0-8 | 0= Warning | Action for Call Duration Limiting |
| 04 | 0-1 | 0= 12 Hours | 12/24 Hours Clock |
| 05 | 0-9 | 0= None | SLT Hook flash Answer Delay |
| 06 | 0-4 | 1= 200 Sets | Speed Dialing Distribution |
| 07 | 0-1 | 0= Disable | Single Digit Intercom |
| 08 | 0-4 | 0= 90v DC | Message Waiting Method - Analog Phones |

Description:

01. System Baud Rate Setting

This parameter sets the system Baud Rate of RS232 port for the following application:

- 1) SMDR= 9600 bps
- 2) SM5= 3600 bps
- 3) Software update = 57600 bps
- 4) G1E Monitor= 57600 bps (Refer to Program 05-24)

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Unit |
|------------|------|------|------|------|------|-------|-------|-------|--------|------|
| 05-04-01 | 1200 | 2400 | 3600 | 4800 | 9600 | 19200 | 38400 | 57600 | 115200 | bps |

02. Dial 9 Flag

This parameter sets if a station can access an outgoing line by dialing 9. If this parameter is disabled the station can still access an outgoing line by pressing a line key on a Key phone or dial 8xx (xx is the trunk number).

| IP \ Value | 0 | 1 |
|------------|---------------------------|----------------------------|
| 05-04-02 | Dial 9 feature is enabled | Dial 9 feature is disabled |

03. Action for Call Duration Limiting

This parameter decides what action will be taken if a station has limit call duration enabled in Mode 40-nnnn-03. Settings 0 to 3 are for outgoing calls only. The outside party will also hear the warning tone.

| IP \ Value | Value | Value Description |
|------------|-------|--|
| 05-04-03 | 0 & 5 | Continuous Warning Tone after Timeout |
| 05-04-03 | 1 & 6 | 1 second Warning Tone for each cycle of Limit Call Duration |
| 05-04-03 | 2 & 7 | At 10 seconds before Timeout, 1 second Warning Tone At 5 seconds before timeout, continuous Warning Tone, At timeout the line is released. |
| 05-04-03 | 3 & 8 | At 1 minute before timeout, 1 second warning tone, At 30 seconds before timeout, continuous warning tone At timeout the line is released. |

Related System Program: 40-st-03

04. 12/24 Hours Clock

This parameter determines the clock display method on the LCD display of key phones.

| IP \ Value | 0 | 1 |
|------------|---------------------|---------------|
| 05-04-04 | 12 Hour Clock AM/PM | 24 Hour Clock |

05. SLT Hook Flash Answer Delay

This timer provides a guard time to prevent an SLT user from making an un-intended Hook Flash, such as lifting the handset but dropping on hook again, when it tries to answer a call. The Hook Flash detection will be delayed this time interval before activating.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---------|---|---|---|---|---|---|---|---|---|------|
| 05-04-05 | disable | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

06. Speed Dialing Distribution

This parameter sets the number of speed dial numbers allocated to the system or personal. The total number is 1000 sets with 100 allocated to system and 900 to personal. If name feature is enable the total number of speed dial will be reduced to half its total. For example: if personal has 900 speed dial, when name feature is enable, its total number will be dropped to 450. Please note that the personal speed dials are shared between all extensions. To assign the number of personal speed for each extension refer to Mode 42-nnn-DP

| IP \ Value | Value | Speed Dial Number | Personal Total / Name Feature |
|------------|-------|-------------------|-------------------------------|
| 05-04-06 | 0 | 100 (100 to 199) | 900/450 |
| 05-04-06 | 1 | 200 (100 to 299) | 800/400 |
| 05-04-06 | 2 | 300 (100 to 399) | 700/350 |
| 05-04-06 | 3 | 400 (100 to 499) | 600/300 |
| 05-04-06 | 4 | 500 (100 to 599) | 500/250 |
| 05-04-06 | 5 | 600 (100 to 699) | 400/200 |
| 05-04-06 | 6 | 700 (100 to 799) | 300/150 |
| 05-04-06 | 7 | 800 (100 to 899) | 200/100 |
| 05-04-06 | 8 | 900 (100 to 999) | 100/50 |

Note: Numbers after backslash at Personal is the total available with name feature enabled.

07. Single Digit Intercom

Single digit intercom allows the stations to call up to 5 other stations by dialing one digit only (1 to 5). This feature is for the Hotel / Motel Environment. Up to eight different groups may be programmed. If a group is not programmed with any entries then stations which are in the same number station group will be able to make intercom calls without dialing the room to room dialing prefix (6).

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-04-07 | Disable | Enable |

08. SLT Message Waiting Method

| IP \ Value | 0 | 1 | 3 |
|------------|--------|------|------------------------|
| 05-04-08 | 90V DC | Ring | Two 250 ms. Ring Burst |

Description:

0=90V Message light

90 Volts DC will operate industry standard neon light message waiting phones.

1=Auto Ring

If the setting is Ring, the single line phone will receive 30 seconds intercom ringing every 5 minutes until the station answers.

3=Special Ring 250 ms

If the setting is 250 ms. Ring, the single line phone will receive two 250-ms. ring burst every 5 minutes. This is for use with the special telephones to turn on message lamp.

Program 05-05-IP : System Timing Parameters – 05

05-05-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 7 1 1 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|--------------|--|
| 01 | 0-3 | 0= | Morning Call Type |
| 02 | 0-1 | 0= | Reserved (for Meter Pulse Detection) |
| 03 | 0-5 | 0=0 | Speed Dial Unrestricted-1 |
| 04 | 0-9 | 0=0 | Speed dial Unrestricted-2 |
| 05 | 0-7 | 7=enable all | Name Feature For Extensions, Trunks, Speed dials |
| 06 | 0- | 0= | Reserved |
| 07 | 0-9 | 1=2 Times | Auto Redial Trials |
| 08 | 0-9 | 0=10 Sec. | Auto Redial Pause Time |

01. Wake Up Call

This parameter is used for the Hotel/Motel manager to decide which kind of Wake-up call is used to notify guests for wake-up service.

| IP | Value | Value Description |
|----------|-------|---|
| 05-05-01 | 0 | Voice Prompt of Morning Call |
| 05-05-01 | 1 | Background Music or DND Tone |
| 05-05-01 | 2 | Voice Prompt of Wakeup Call + Wakeup Call History Output via SMDR Port |
| 05-05-01 | 3 | Background Music or DND Tone + Wakeup Call History Output via SMDR Port |

Each station can be set by Program 44-st-08 to decide whether to hear Background Music or DND tone.
 To record Voice Prompt of Wakeup call: Dial [8901],[Password (Default=1234)],[2][3][3] from the console.

02. Reserved

03, 04. Speed Dial Unrestricted - 1, 2

If 03, 04 settings are A and B, then the speed dial codes from 100 to AB0 are Not Toll Restricted. For example if the settings are 1 and 1 then Speed dials from 100 up to 110 can be used by stations to bypass the Toll Restrictions.

Individual stations can be restricted from using this feature in Mode 45-st-07.

If 03, 04 settings are set to 0 and 0, then all speed dial codes are toll restricted if the station using the speed dial will be restricted.

05. Name Function

This parameter enables the naming feature for trunks, extensions and speed dials.

| Features \ Values | 0 | 1 | 2 | 3 | 5 | 7 |
|--|----------|----------|----------|----------|----------|----------|
| Display Name instead of number for Extension | | V | | V | V | V |
| Directory Dial for Speed Dial | | | V | V | | V |
| Directory Dial for Extension | | | | | V | V |

V: The feature is enabled.

Note 1: When any of the above features are enabled the total number of speed dial sets will be reduced. See Program 05-04-06.

Note 2: For setting name for Extension/Speed dial/Trunk, Please refer to the Program 43 press [MIC]

Note 3: For setting "Directory Dial" key, Please refer to Program 07.

06. Reserved

07. Auto Redial Attempts

This parameter is to set the number of Auto Redial attempts that the system will try.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|----|----|----|----|----|----|-------|
| 05-05-07 | 0 | 2 | 5 | 9 | 19 | 29 | 39 | 49 | 59 | 69 | times |

08. Auto Redial Pause Time

This timer defines the length of time a system will remain on hook (between attempts) between Auto Redial attempts.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|----|----|----|----|----|----|----|----|----|-----|------|
| 05-05-08 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | sec. |

Program 05-06-IP : System Timing Parameters – 06

05-06-IP SYS PAR IP =Item Pointer (01-08)
 4 4 1 1 0 3 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|--|
| 01 | 0-9 | 4=30 Sec. | Transfer Busy Recall Time |
| 02 | 0-9 | 4=30 Sec | Transfer Idle Recall Time |
| 03 | 0-1 | 1=u-law | ISDN Audio Coding (a-law or μ - law) |
| 04 | 0-9 | 1=enable | Polarity Reversal |
| 05 | 0-1 | 0=0 | Operator Code |
| 06 | 0-9 | 3=3 Min. | Unsupervised Conference & ECF Time Setting |
| 07 | 0-1 | 0=Flash | Hold Method for SLT |
| 08 | 0-2 | 0=Common | Station Hunting Group Ring Method |

01. Transfer Busy Recall Time

This timer defines the time duration for transferring a call to a busy party and then transfer back to the original transferring party when the called party is busy.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|----|----|----|----|----|----|----|----|----------|------|
| 05-06-01 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 70 | ∞ | Sec. |

Note: ∞ = Infinite. It means never Recall.

02. Transfer Idle Recall Time

This timer defines the time duration for transferring a call to a idle station and then transfer back to the original transferring party when the called party does not answer.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|----|----|----|----|----|----|----|----|----------|------|
| 05-06-02 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 70 | ∞ | Sec. |

Note: ∞ = Infinite. It means never Recall.

03. ISDN Audio Coding (a-law or μ - law)

This parameter sets the ISDN Audio companding algorithm. It is not necessary to change this parameter as the software defaults will be set for each market. North America uses μ law.

| IP \ Value | 0 | 1 |
|------------|-------|-------------|
| 05-06-03 | a-law | μ - law |

04. Polarity Reversal

This parameter is to enable the Polarity Reversal detection feature for incoming caller hang up detection in Australia and some European countries. See Mode 14-01-08 for SMDR setting. Telecom provider needs to enable its polarity reversal feature at the central office. When this reversal is enabled the system will hang up the CO line when the incoming caller hangs up and the CO sends a Polarity Reversal signal to the system.

| IP \ Value | 0 | 1 | 2 to 9 |
|------------|---------|--------|-----------------------------------|
| 05-06-04 | Disable | Enable | Enable after 1 to 8 seconds delay |

Note: 2-9 =Delay for 1-8 Seconds after accessing the line and then detect Polarity Reverse Signal

05. Operator Code

This parameter is to set whether to dial "0" or "9" for calling the operator or accessing a CO. line.

| IP \ Value | 0 | 1 |
|------------|---|---|
| 05-06-05 | Dial "0" for operator, "9" for C.O. line. | Dial "9" for operator, "0" for C.O. line. |

06. Unsupervised Conference & ECF Time Setting

This timer defines the allows time duration on Unsupervised Conference or ECF (External Call Forward) calls. The system will send a warning tone prior to disconnecting the call. If either party sends a DTMF digit (0-9) to the system the timer will reset and allow the call to continue for this time setting. If reversal supervision is used, system will release the line when reversal signal is detected.

| IP \ Value | 0 | 1 | 2 | 3 | 4~9 | Unit |
|------------|----------|---|---|---|-----|------|
| 05-06-06 | No Limit | 1 | 2 | 3 | 4 | Min. |

07. Hold Feature for SLT

This parameter is to set whether Single Line Telephones use [FLASH] or [FLASH, 7] to place a call on Hold.

| IP \ Value | 0 | 1 |
|------------|--|--|
| 05-06-07 | Normal Use [FLASH] to place a call on Hold. | Alternate Use [FLASH, 7] to place a call on Hold. |

08. Station Hunting Group - Ring Method:

This parameter sets the ring method used in the station hunting groups. Pilot numbers for hunt groups are set in Program 67, Day/Night ring stations are set in Program 68 & 69, Individual Hunt Group Ring type can be set in Program 67-gp-02 and will over ride the system wide setting made here.

| IP \ Value | 0 | 1 | 2 |
|------------|--------|--------|----------|
| 05-06-08 | Common | Linear | Circular |

Program 05-07-IP : System Timing Parameters – 07

05-07-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|--|
| 01 | 0-1 | 0=Disable | Intercom Searching |
| 02 | 0-1 | 0=Disable | Toll Override Prevention from Quick Dial |
| 03 | 0-1 | 0=Enable | Paging Alert Tone |
| 04 | 0-7 | 0=Enable | DISA Transfer To Console - No Dialing |
| 05 | 0-1 | 0=Disable | Key Phone Toll Override Prevention |
| 06 | 0-9 | 0=Disable | SMDR Digit Mask |
| 07 | 0-9 | 0=0 sec. | Guard Time for CO Line Re-accessing |
| 08 | 0- | 0= | Reserved |

01. Intercom Searching

If Enabled, when calling an internal station which is busy or does not answer, pressing [4] will call the next station which is in the same station group as the called station. If setting is Disabled, then there will be no such searching.

| IP \ Value | 0 | 1 | 2 | 3 |
|------------|----------|------------------|-----------------------|-------------------------------|
| 05-07-01 | Disabled | Enable when busy | Enable when no answer | Enable when busy or no answer |

02. Toll Override Prevention from Quick Dial

To protect toll override control when a Key phone selects a trunk and quickly dials one digit to bypass the toll control. When this parameter is set to Enabled, after selecting a trunk, the first digit dialed will be delayed one pause interval to send to the Central Office.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-07-02 | Disable | Enable |

03. Paging Alert Tone

This parameter enables/disables the paging alert tone.

| IP \ Value | 0 | 1 |
|------------|------------------------|-------------------------|
| 05-07-03 | Enable page alert tone | Disable page alert tone |

04. DISA Recall To Console - No Dialing

If this function is activated, when a DISA call is answered but the caller does not dial any digits or station number, the system will recall the Operator after the assigned DISA Transfer Time No Dialing (Program 05-08-07). If this function is disabled the call will be disconnected after Transfer Time No Dialing elapses. This parameter is also used to clear the VMU channels after 10 minutes of operation where central offices do not provide proper disconnect supervision (CPC/CFS signal).

| IP \ Value | 0 | 1 | 2 | 3 |
|------------|--------------------|-----------------------|---|--|
| 05-07-04 | Recall to operator | No Recall to operator | Recall to operator and release line after 10 min. | No Recall to operator and release line after 10 min. |

05. Key Phone Toll Override Prevention

If the setting is Disable, after accessing a line a user will be able to use a DTMF generator directly to the network rather than the DTMF signal generated within the KSU. The result of this is that Toll restrictions can be over-ridden. If the setting is Enable, then no audio will be sent from the handset until 3 digits are received by the KSU from the key station dial pad preventing Toll restrictions being overridden. This parameter will be automatically disabled on any lines which are set to Pulse Dial.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-07-05 | Disable | Enable |

06. SMDR Digit Mask

If the setting is "0", then the full length of the telephone number will be output to the SMDR. If setting is n, only the first n digits will be output to the SMDR.

n = 1 to 9

07. CO Line Guard Timer

This timer offers a pause time when a line is released before It can be accessed again.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 05-07-07 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

08. Reserved

Program 05-08-IP : System Timing Parameters – 08

05-08-IP SYS PAR IP = Item Pointer (01-08)
 3 0 3 0 7 1 4 3 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------------|--|
| 01 | 0-9 | 3=6 seconds. | Ring Hunt Time |
| 02 | 0-1 | 0=Enable | DSS Access To Other Trunk Group |
| 03 | 0-9 | 0=disable | SLT Camp On Tone |
| 04 | 0-1 | 0=Station Group | Console of DISA Transfer Group for No Answer |
| 05 | 0-8 | 7=7 + Code | SLT Programming Digit |
| 06 | 0-9 | 1=16 Sec. | DISA Transfer Time No Answer |
| 07 | 0-9 | 4=4 Sec. | DISA Transfer Time No Dialing |
| 08 | 0-1 | 3=External MOH | Music source selection |

01. Ring Hunt Time

If setting is n, then when an incoming call rings the first assigned extension and that extension is busy, after n seconds the call will ring the second of the ring assigned extensions. If the 2nd extension is busy the call will go to the 3rd extension immediately. All stations which have been called by the ring assignment will receive off hook busy remind. Up to 26 stations can be set in the ring group. If this setting is 0 then only the first ring assigned station will ring.
 Related Program: 35-tk-07, 35-tk-08

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|---|---|---|---|----|----|----|-----|-----|------|
| 05-08-01 | Disable | 2 | 4 | 6 | 8 | 15 | 30 | 60 | 120 | 254 | sec. |

02. DSS Access to Other Trunk Group

This feature enables or disables the ability of stations to use a DSS key to answer a Ringing CO line that is not in its own group.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 05-08-02 | Enable | Disable |

03. SLT Camp on Time

This feature enables a tone to indicate call waiting for a busy analog phone and sets the interval between tone insertion. The interval between tones will be the Off Hook Busy Remind Interval (t) multiplied by the setting in this parameter. Off Hook Busy Remind Time is set in Mode 05-01-05.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|---|---|---|---|---|---|---|---|---|------|
| 05-08-03 | Disable | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

Note: Disable means no Camp on Tone.

04. Console of DISA Transfer Group for No Answer

This parameter defines which console will be rung if an unsuccessful DISA call needs to be transferred. The called station must be set in Program 46-st-04 to decide what transfer action will be taken.

| IP \ Value | 0 | 1 |
|------------|---|--|
| 05-08-04 | Console of the Called Station's group (Program 41-st-01) | Console of the Incoming Trunk's group (Program 36-gp) |

05. SLT Programming Digit

This feature changes the programming digit used by an Analog phone to perform its programmable features. For example call forward is normally 701: If this parameter is set to 3, then the call forward code will be changed to 301. If the setting is 0 then the analog phones cannot do programming. If the setting is 8, the call forward code will be changed to [*][#][701]. before accessing programming or dialing any 8 codes. This will allow the use of digits 1 to 8 as the first digits of station numbers.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------|---------|-----|-----|-----|-----|-----|-----|-----|---|
| 05-08-05 | Disable | 1xx | 2xx | 3xx | 4xx | 5xx | 6xx | 7xx | [*][#][7xx] for programming [*][#][8xx] for accessing functions beginning with 8 |

Note:

- 0=Disable. It means SLT has no programming capability.
- 9=Disable and the [*][#] means Redial function.

06. DISA Transfer Time No Answer

An incoming call is answered by Auto Attendant and transferred to the called extension. If the called extension does not answer after this time duration, a voice prompt will announce the status (no answer) of the called station or busy immediately if the station is busy. The system will try to recall the console several times (by Program 05-11-6) then release the call. Program 46-st-04 defines whether the call shall be transferred or not. Program 05-08-04 defines which console shall be transferred to.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|----|----|----|----|----|----|----|----|----|------|
| 05-08-06 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | sec. |

07. DISA Transfer Time - No Digits Dialed

This timer defines the waiting time after the Auto Attendant answers the call and plays the voice prompt before transferring the call to the console if no digits are received. Do not set this timer to less than 3 seconds for normal operation.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 05-08-07 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

08. Music Source Selection

This parameter sets the Music Source for the Internal Background Music, Music on Hold for CO line and Door phone music-type ringing signal. (Program 05-03-09=9)

| IP | Value | BGM | MOH | Door |
|----------|-------|----------------|----------------|----------------|
| 05-08-08 | 0 | Internal Music | Internal Music | Internal Music |
| 05-08-08 | 1 | External Music | IMC | IMC |
| 05-08-08 | 2 | Internal Music | External Music | External Music |
| 05-08-08 | 3 | External Music | External Music | External Music |
| 05-08-08 | 4 | SLT Music | SLT Music | SLT Music |
| 05-08-08 | 5 | External Music | SLT Music | SLT Music |
| 05-08-08 | 6 | Internal Music | Internal Tone | External Music |
| 05-08-08 | 7 | External Music | Internal Tone | External Music |
| 05-08-08 | 8 | Internal Music | VMU music | Internal Music |
| 05-08-08 | 9 | External Music | VMU music | Internal Music |

Note:

1. BGM = Background music for internal extension only.
2. MOH = Music on Hold for CO line is put on hold.
3. Door = Set Door ringing as background music. (Program 05-03-08=9)
4. Internal Music Clip (Internal Music): This audio clip can be recorded by dialing [8901] [2][3][2] at console.
5. External Music Source (External Music): Refer to Installation Manual for linking to external music source.
6. SLT Music Source (SLT Music): Use special music interface at SLT port
7. Internal Tone: Double "DO" tone.
8. VMU music: Music Clip on the VMU card.

Program 05-09-IP : System Timing Parameters – 09

05-09-IP SYS PAR IP = Item Pointer (01-08)
 0 1 1 0 0 0 0 1 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|--|
| 01 | 0-1 | 0= | Reserved |
| 02 | 0-1 | 1=Enable | Busy Console Queuing (Intercom Calls) |
| 03 | 0-9 | 1= >80ms | Clear Forward Signal (Loop Disconnect) Detection |
| 04 | 0-9 | 0=Disable | DISA Busy Tone Detection |
| 05 | 0- | 0= | Reserved |
| 06 | 0-9 | 0=5 Sec | ACD-1 Enable Time |
| 07 | 0-9 | 5=25 sec. | ACD-1 Segment 2 Recall Time |
| 08 | 0-9 | 1=5 min | ACD-1 Release Time |

02. Console Queuing

This feature enables the busy console(s) to have an intercom call(s) queued to it(them). If the station dials the operator (by 0 or 9) and all the consoles are busy, the system will put this call in the queue to wait for the operators to be free. The calling station will hear ring back tone instead of busy tone and the first operator in the group will receive the Busy Remind Signal. The first operator to go on-hook will receive the call.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-09-02 | Disable | Enable |

03. Clear Forward Signal (Loop Disconnect) Detection

Clear Forward Signal (CFS), also known as Calling Party Control (CPC) is a signal sent in the forward direction to terminate a call (or call attempt) so that the associated circuits can be released. This signal is normally originated when the calling party hangs-up the phone.

Some Central Offices provide this kind of signal by breaking (disconnecting) the Loop circuit for a period of time and then making (connecting) again. This Break time period is varied at different CO line and some CO lines do not offer this feature.

The parameter in this mode is the minimum Break time for formal Clear Forward Signal, so that phone system can release the line back to idle status.

| IP | Value | Value Description |
|----------|-------|---|
| 05-09-03 | 0 | No need to detect Clear Forward Signal |
| 05-09-03 | 1 | Break Time over 80 ms will recognize a formal CFS. |
| 05-09-03 | 2 | Break Time over 160 ms will recognize a formal CFS. |
| 05-09-03 | 3 | Break Time over 240 ms will recognize a formal CFS. |
| 05-09-03 | 4 | Break Time over 320 ms will recognize a formal CFS. |
| 05-09-03 | 5 | Break Time over 400 ms will recognize a formal CFS. |
| 05-09-03 | 6 | Break Time over 480 ms will recognize a formal CFS. |
| 05-09-03 | 7 | Break Time over 560 ms will recognize a formal CFS. |
| 05-09-03 | 8 | Break Time over 640 ms will recognize a formal CFS. |
| 05-09-03 | 9 | Break Time over 720 ms will recognize a formal CFS. |

04. DISA Busy Tone Detection

This setting allows system to recognize busy tone from the central office line during DISA call to release the call.

| IP | Value | Value description |
|----------|-------|---|
| 05-09-04 | 0 | Disable |
| 05-09-04 | 1 | Australia: (420 Hz, 375ms on/off) (400 Hz, 375ms on/off) |
| 05-09-04 | 2 | Italian: (420 Hz, 500ms on/off) |
| 05-09-04 | 3 | Mexico: (420 Hz, 250ms on/off) |
| 05-09-04 | 4 | South African: (400 Hz, 500ms on/off) |
| 05-09-04 | 5 | Spain: 420 Hz, 200ms on/off) |
| 05-09-04 | 6 | New Zealand: (400Hz, 250ms on/off) |
| 05-09-04 | 7 | U.S: (480 Hz + 620 Hz, 250ms on/off and 500ms on/off) |
| 05-09-04 | 8 | Indonesia: (500hz, 250ms on/off, 500ms on/off) (420hz, 250ms on/off, 500ms on/off) (1000hz, Continuous on) |
| 05-09-04 | 9 | Israel: (450-470Hz, 700 ms on/off) |
| 05-09-04 | d | Pakistan: (450Hz, on:240+-40ms off:340+-40ms) |

05. Reserved

06. ACD-1 Enable Time

This parameter is to set the time duration before the system answers an incoming call when the ring assigned station(s) are busy if the operator overflow feature is enabled. The incoming call will show as a normal ring signal on the DSS key and can be answered by the operator at any time even while the voice message is playing to the caller. Operator Overflow (ACD-1) is enabled in Program 29-tk-02.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|----|----|----|----|----|----|----|----|----|------|
| 05-09-06 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | Sec. |

07. ACD-1 Segment 2 Recall Time

This parameter sets the time an ACD-1 call which has been answered by the Overflow message will stay on hold in the ring queue before the system will play the second part of the ACD-1 message to apologize for the continuing delay. The call back time for the second message starts at 5 seconds and increases in 5 second increments. The message will be played to the caller every time the recall time is reached until answered by the operator or the caller hangs up.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|---|----|----|----|----|----|----|----|----|------|
| 05-09-07 | Disable | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | Sec. |

08. ACD-1 Release Time

This parameter sets the time at which the system will release the incoming caller during ACD-1 operation when it has not been answered by an operator. The system will play a warning message to the caller before releasing the call. If polarity reversal is used for incoming call clear down then this parameter should be disabled.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|----|----|----|----|----|----|----|----|------|
| 05-09-08 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | Mins |

Program 05-10-IP : System Timing Parameters – 10

05-10-IP SYS PAR IP =Item Pointer (01-08)
 d d d d d d d d Value for each Item

| IP | Value | Default | Item Description |
|----|-------------|-------------|---|
| 01 | 0-9,*,#,p,d | d= No Digit | Leading Digit 1 For Voice Mail Forwarding |
| 02 | 0-9,*,#,p,d | d= No Digit | Leading Digit 2 For Voice Mail Forwarding |
| 03 | 0-9,*,#,p,d | d= No Digit | Leading Digit 3 For Voice Mail Forwarding |
| 04 | 0-9,*,#,p,d | d= No Digit | Leading Digit 4 For Voice Mail Forwarding |
| 05 | 0-9,*,#,p,d | d= No Digit | Leading Digit 5 For Voice Mail Forwarding |
| 06 | 0-9,*,#,p,d | d= No Digit | Leading Digit 6 For Voice Mail Forwarding |
| 07 | 0-9,*,#,p,d | d= No Digit | Leading Digit 7 For Voice Mail Forwarding |
| 08 | 0-9,*,#,p,d | d= No Digit | Leading Digit 8 For Voice Mail Forwarding |

Description:

This parameter allows the system to insert digits before the call forwarded station number when the call forward is received by the voice mail port if Standard Protocol is selected. If the station numbering is only 2 or 3 digits the system will insert additional digits if the Voice Mail requires more. The last digits of the voice mail box number will still have to be the same as the station numbering for correct recognition. The HOLD key can be used to insert a pause in the DTMF tone sending and will display as a (p). The DND key is no digits sent and is shown as (d).

The possible value for each leading digit is 0 to 9, *, #, Pause (enter by pressing HOLD key) and No Digit (enter by pressing DND key)

Example:

The system is set to 2 digit numbering but the voice mail requires 4 digits. The voice mail also requires a pause between answering the call and the tones being sent. Set this parameter to the following

05-10-IP SYS PAR
 p 1 1 d d d d d

When the call forwarded station 34 is answered by the voice mail port after the pause time the digits 1134 will be sent to the port by the system. If station 34's voice mail box is 1134 then the mailbox number 1134 will be automatically opened by the tones.

There are 2 different Voice Mail Protocols available in the *TRANSTEL* series depending on the setting in Mode 05-12-05. If this mode is set to 0 then the Protocol will be the leading digits entered in this Mode plus the Station Number of the forwarded station. If Mode 05-12-05 is set to 1 then the Enhanced Protocol shown on the following page will be used.

Enhanced Protocol

Voice Mail System Leading Digit Format

- 1+ extension number = CFWD All Calls
- 2+ extension number = CFWD Busy
- 3+ extension number = CFWD No Answer
- 4+ extension number = Direct Call to Voice Mail (Station)
- 5+ extension number = Call Record
- 6+ extension number = Recall to Voice Mail
- 7+ CO trunk number = Incoming CO Call

Program 05-11-IP : System Timing Parameters – 11

05-11-IP SYS PAR IP =Item Pointer (01-08)
 0 0 1 0 0 2 5 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------------|--|
| 01 | 0-4 | 0=None | DTMF Caller ID Leading Digit |
| 02 | 0-1 | 0=1 | DISA Password – 1 / 50 Sets |
| 03 | 0-2 | 1=MOH | Select Music on Hold or Ring Back Tone |
| 04 | 0-1 | 0=0 | DISA & ECF Access Delay Time - Night |
| 05 | 0-3 | 0=[8],[9],[*],[#] | DISA Special Function Access |
| 06 | 0-9 | 2=4 Times | DISA Re-check Times To Busy Console |
| 07 | 0-9 | 5=30 Sec. | Door Phone Ringing Time |
| 08 | 0-8 | 0=Disable | DISA Single Digit Dialing |

01. DTMF Caller ID Leading Digit

This parameter defines the start digit of DTMF caller ID signal. The system will omit the start digit for CLI (Caller ID) data on the display phone and CLI list. Not used in North America.

02. Number of DISA Passwords

This parameter defines the total number of DISA passwords. At the default setting of 0 the DISA password will be set in mode 13-02. If the parameter is set to 1, there are 50 passwords available to use and they are same as the forced account codes numbers (50-99). Refer to Program: 17 Forced Account Codes.

| IP \ Value | 0 | 1 |
|------------|------------|--------------|
| 05-11-02 | 1 Password | 50 Passwords |

03. Select Music on Hold or Ring Back Tone

This parameter selects what the incoming caller will hear during Ring Transfer and Hold Recall conditions. The feature is designed to prevent the caller incorrectly recognizing the International Ring Back Tone as a disconnect or busy signal and hanging up even though their call is still in progress.

| IP \ Value | 0 | 1 | 2 |
|------------|----------------|---------------|---------|
| 05-11-03 | Ring Back Tone | Music On Hold | Silence |

04. DISA & ECF Access Delay Time – Night

This parameter sets the timer that a DISA/ECF (External Call Forwarding) trunk will ring assigned stations (set by Program 01-tk-IP, 02-tk-IP) prior to being connected to Auto Attendant (DISA) or another Trunk (ECF) in Night mode. Stations can answer the incoming trunk before it is connected to Auto Attendant or another Trunk.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|---|----|----|----|-----|-----|------|
| 05-11-04 | 0 | 2 | 4 | 6 | 8 | 15 | 30 | 60 | 120 | 254 | sec. |

Note: 0 = Incoming trunk connects to Auto Attendant or another trunk without ring those assigned stations.

1-9 =Incoming trunk connects to Auto Attendant or another trunk after 2-254 seconds ringing.

Also see Program 05-01-04 for Day and Program 05-17-4 for Lunch delay.

05: DISA Special Function Access

This parameter defines which system functions are able to be accessed by external DISA callers.

| IP | Value | Value description |
|----------|-------|---|
| 05-11-05 | 0 | DISA caller can access an outside line by [9] + Password. DISA caller can access mail box or VM from external call by [#] |
| 05-11-05 | 1 | DISA caller cannot access an outside line by [9] + Password. DISA caller can access mail box or VM from external call by [#] |
| 05-11-05 | 2 | DISA caller can access an outside line by [9] + Password. DISA caller cannot access mail box or VM from external call by [#] |
| 05-11-05 | 3 | DISA caller cannot access an outside line by [9] + Password DISA cannot access mail box or VM from external call by [#] |

Note:

1. The password for DISA caller to make another outside call is assigned at Program 13-02
2. Remote Access to retrieve messages outside the telephone system is assigned here.
3. The same applies for the system administrator who also may access the voice mail system remotely to change greetings and service settings.

06. DISA Re-check Times To Station/Console

This function sets the number of times that an unsuccessful DISA call will attempt to recall a station and or transfer to a console after the ringing time set in Mode 05-08-06 and depending on the setting for individual stations in Program 46-st-04. If polarity reversal or Clear Forward is available and enabled, set this parameter to 9 and the call will continue to retry until the caller hangs up.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|----|----------|-------|
| 05-11-06 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Infinite | times |

07. Door Phone Ringing Time

This timer sets the time duration that Door Phone Ring Assignment Stations will ring after Bell button of Door Phone is pressed.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|----|----|----|----|----|----|----|----|----|------|
| 05-11-07 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | sec. |

08. DISA Single Digit Dialing -

This feature allows a DISA caller to dial stations by 1 digit (1-8) using the Hunt Groups (01-08) settings in Program 67(Pilot No. Ring), 68 (Day), and 69 (Night / Lunch). Program 05-16-03 to set second level menu for DISA Single Digit Dialing.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|---------|------------|--------------|--------------------|-------------|-------------------|---------------------|---------------------------|
| 05-11-08 | Disable | Enable Day | Enable Night | Enable Day & Night | Enable Noon | Enable Noon & Day | Enable Noon & Night | Enable Noon & Night & Day |

Program 05-12-IP : System Timing Parameters – 12

05-12-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 2 7 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------|---|
| 01 | 0-1 | 0=Key Phone | Call Transfer Method – Key Telephone |
| 02 | 0- | 0= | Reserved |
| 03 | 0-1 | 0=Yes | Exclusive hold capability |
| 04 | 0-9 | 2=3 Sec. | Door Unlock Relay Activation Time |
| 05 | 0-7 | 7=Enhanced | Voice Mail Call Forward Protocol Type / mute digits |
| 06 | 0-1 | 0=Linear | Linear/Circular Trunk group access |
| 07 | 0-9 | 0=Disable | LED indication of Check in / Check out on DSS console |
| 08 | 0- | 0= | Reserved |

01. Call Transfer Method – Key Telephone

This parameter allows DK phone to transfer the call by normal Analog way. That is [Hold] [Station Number] [Hang up]. Normal DK phone way to transfer a call is pressing [Hold], then dial [Station Number], pressing [TRF] key.

It also adds the ability to transfer a trunk call to another trunk (External Call Transfer) using the Transfer key rather than the Unsupervised Conference facility.

| IP | Value | Value Description |
|----------|-------|-------------------|
| 05-12-01 | 0 | TRF |
| 05-12-01 | 1 | Hang Up |
| 05-12-01 | 2 | Note 1 |
| 05-12-01 | 3 | Note 2 |

Note:

1. DK phone can transfer a trunk to another trunk by [Hold] [DSS trunk] [TRF].
2. Use [Hold] [DSS] [Hang Up] to transfer normal call and transfer trunk-to-trunk as mentioned in Note 1 above.

02. Reserved

03. Exclusive Hold Capability

If this parameter is enabled all stations can use the Exclusive Hold Function. If the parameter is disabled no stations will be able to place calls on Exclusive hold.

| IP \ Value | 0 | 1 |
|------------|---------|----------|
| 05-12-03 | Enabled | Disabled |

04. Door Relay Activation Time

The parameter sets the time that the door relay will remain activated after the Door Unlock function is activated by the user. The Door unlock relay is set in Program 06.

| | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|------|
| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
| 05-12-04 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | sec. |

05. Voice Mail Call Forward Protocol Selection and Muting Leading Digits

This parameter selects between Standard Voice Mail Call Forward Protocol and the Enhanced Protocol. For a full description of Voice Mail Protocol see Program 05-10. It will also set the muting of the leading digits

| | | | | | | | | |
|-------------------------------|-------|------|-------|------|-------|------|-------|------|
| Setting Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| VMS Leading Digit Type | Short | Long | Short | Long | Short | Long | Short | Long |
| Mute Leading Digit | No | No | Yes | Yes | No | No | Yes | Yes |
| Leading Digit for VMS | No | Yes | No | Yes | No | No | Yes | No |

“Short” type: Use the Leading Digit programmed in program 05-10.

“Long” type: Use 10 Leading Digits. Refer to Mode 05-10 (**Enhanced Protocol**)

“Mute Leading Digit”: The caller will not hear the DTMF signal during the transmission of leading digits.

“Leading Digits for VMS”:

Yes: When incoming caller call the voice mail directly, the system will send the Leading digits (7+ CO trunk number)

No: When incoming caller call the voice mail directly, the system will not send any leading digits.

Note: Refer to Mode 05-10 for the leading digits as follow:

Voice Mail System Leading Digit Format (TCI version only)

| | | |
|---------------------|---------------------------------------|------------------------------|
| 1+ extension number | = CFWD All Calls | (Replaces 11 and 21eeeeexxx) |
| 2+ extension number | = CFWD Busy | (Replaces 12 and 22eeeeexxx) |
| 3+ extension number | = CFWD No Answer | (Replaces 13 and 23eeeeexxx) |
| 4+ extension number | = Direct Call to Voice Mail (Station) | (Replaces 14eeeeexxx) |
| 5+ extension number | = Call Record | (Replaces 15eeeeexxx) |
| 6+ extension number | = Recall to Voice Mail | (Replaces 25eeeeexxx) |
| 7+ CO trunk number | = Incoming CO Call | (Replaces 2400tt00tt) |

Related System Programming Mode: 05-10, 43-cn-03, 50-ST-05

06. Linear / Circular Trunk Group Access

If this parameter is set to 0 then line selection will be the first available trunk in the users dial (9-0) group. If the parameter is set to 1 then the lines will be selected in a Circular fashion till all lines have been used and then the selection will start again. Do **NOT** use Circular with PSTN lines unless there is a very good reason as call collision will result. Trunk Groups are programmed in Mode 36-gp.

| | | |
|------------|--------|----------|
| IP \ Value | 0 | 1 |
| 05-12-06 | Linear | Circular |

07. LED Indication of Check In / Check Out

This parameter disables or enables the LED indication for Check in/Check out features for the DSS consoles and DSS Keys of DK phones.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-12-07 | Disable | Enable |

The LED indications are as follows:

| LED | Description |
|--------------------|---|
| Red and slow flash | If the Reception has checked out an extension, the LED for extension will slow flash red. |
| Green | When the checked out extension's room has been cleaned by the cleaner (maid), they can dial [776] from the phone and hang up. The LED for that extension will go Green. This means the room is ready for a new guest. |
| Red | The room is checked in and the phone is in use. |
| Off | The room is checked in and the phone is in idle status. |

08. Reserved

Program 05-13-IP : System Timing Parameters – 13

05-13-IP SYS PAR IP = Item Pointer (01-08)
 1 0 0 0 5 0 6 7 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------|---|
| 01 | 0-1 | 1=Enable | Intercom Hot Key Dialing |
| 02 | 0-1 | 0=Disable | Immediate SMDR output |
| 03 | 0-1 | 0=52 Sets | Caller ID Buffer Block Size |
| 04 | 0-9 | 0= | Reserved |
| 05 | 0,1,5 | 5=Name/Num | CLI Record Storing Method for LCD Phones |
| 06 | 0-1 | 0= Disable | CTI-Trunk Status Report |
| 07 | 0-7 | 6= Saturday | Least Cost Routing(LCR) – Weekly Holiday 1 |
| 08 | 0-7 | 7= Sunday | Least Cost Routing(LCR) – Weekly Holiday 2 |

01. Intercom Hot Key Dialing

This parameter when enabled allows stations to dial a call On Hook without having to lift the handset or press the [SPK] key.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-13-01 | Disable | Enable |

02. Immediate SMDR Output

This parameter enables system to send out SMDR record when call is made or digit is dial out. In normal case, the SMDR record is only available when the call is completed. This feature allows external software to know who is dialing out with which digits or who is ringing into the system without waiting until the call is completed. The external software can then start to count the cost from the beginning of the call. If the credit is 1 hour and time is expired, the external software could release the connection by sending commands back to the KSU.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-13-02 | Disable | Enable |

02. Caller ID Buffer Block Size

This parameter sets the memory block size of Caller ID buffer:

| IP | Value | Memory Block Size | Total Memory blocks |
|----------|-------|-------------------|---------------------|
| 05-13-03 | 0 | 10 sets | 52 |
| 05-13-03 | 1 | 20 sets | 26 |
| 05-13-03 | 2 | 30 sets | 17 |
| 05-13-03 | 3 | 40 sets | 13 |

Refer to Program 83 to allocate the blocks for each DK phone.

04. Reserved

05. Caller ID Record Storing Method for LCD Phones

This parameter defines which information shall be stored into the Caller ID buffer in the DK phone.

| IP \ Value | Value | Value Description |
|------------|-------|--|
| 05-13-05 | 0 | Store Caller ID telephone numbers. |
| 05-13-05 | 1 | Store Caller ID names |
| 05-13-05 | 5 | Store Caller ID telephone number and name. |

If mode 05-13-05 = 1, pressing [CLI History] key, system will display CLI number and name. Pressing [MIC/AT] will display the date/time the call took place.

06. CTI-Trunk Status Report

Enabling this parameter will output the trunk status report for CTI applications.

| IP \ Value | 0 | 1 | 4 | 5 |
|------------|---------|--------|--------------------------------|----------------------------|
| 05-13-06 | Disable | Enable | Enable Extension Status Report | Enable Trunk Status report |

07. Least Cost Routing – Weekly Holiday 1

This parameter set the first weekly holiday for Least Cost Routing feature. This generally refers to Saturday.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|-------------------|--------|---------|-----------|----------|--------|----------|--------|
| 05-13-07 | No weekly holiday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |

Related system Programming: 05-13-07, 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

08. Least Cost Routing – Weekly Holiday 2

This parameter set the second weekly holiday for Least Cost Routing feature. This generally refers to Sunday.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|-------------------|--------|---------|-----------|----------|--------|----------|--------|
| 05-13-08 | No weekly holiday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |

Related system programming: 05-13-07, 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

Program 05-14-IP : System Timing Parameters – 14

05-14-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 6 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|----------------------------------|
| 01 | 0-1 | 0=Disable | SLT LCR Switch on Delay for PSTN |
| 02 | 0- | 0 = | Reserved |
| 03 | 0- | 0= | Reserved |
| 04 | 0- | 0= | Reserved |
| 05 | 0- | 0=Disable | DISA DTMF Detect Delay Time |
| 06 | 0-1 | 6=6 Sec. | CLI Delay Ring Time |
| 07 | 0- | 0= | Reserved |
| 08 | 0- | 0= | Reserved |

01. SLT LCR Switch on Delay for PSTN

This parameter delays the connection of SLT phones to PSTN (Public Switch Telephone Network) lines when LCR is in use to prevent the SLT dialing from conflicting with LCR dialing.

| IP \ Value | 0 | 1 | 4 |
|------------|---------|-----------------|-----------------|
| 05-14-01 | Disable | 3 seconds delay | 6 seconds delay |

02. Reserved

03. Reserved

04. Reserved

05. DISA DTMF Detect Delay Time

This parameter defines the time delay for detecting DTMF signal on a DISA call after DISA answers.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 05-14-05 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

06. CLI Delay Ring Time

This parameter delays the DISA transfer to ensure that CLI (Caller ID) information is available and can be sent to the ringing station with the transferred call. If Program 05-17-07 CLI Call Screening is enabled, it will not be functional unless this parameter is enabled.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|---|---|---|---|---|---|---|---|---|------|
| 05-14-06 | Disable | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

07. Reserved

08. Reserved

Program 05-15-IP : System Timing Parameters – 15

05-15-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|---------|-----------------------|
| 01 | 0-7 | 0= | Company Greeting Time |
| 02 | 0-1 | 0=3.1K | ISDN FAX protocol |
| 03 | 0- | 0= | Reserved |
| 04 | 0- | 0= | Reserved |
| 05 | 1- | 2= | Reserved |
| 06 | 1- | 0= | Reserved |
| 07 | 0- | 0= | Reserved |
| 08 | 0- | 0= | Reserved |

Description:

01. Company Greeting Time

This parameter extends the company greeting (60 seconds) of Auto Attendant by adding the department greeting (60 seconds). Both greetings shall be recorded separately. The system will bundle them together and make a seamless voice message.

| IP | 0 | 4 |
|----------|----------------------------------|--|
| 05-15-01 | Company Greeting = 60 seconds | Company + Department Greeting = 120 seconds |

02. ISDN FAX protocol

This parameter is made for ISDN BRI/PRI interface only.

When the SLT has a FAX machine installed and it wants to transmit and receive FAX signals through an ISDN trunk line, the ISDN trunk will send the 3.1K ISDN protocol to notify the Central Office that a FAX signal will go through it. Please note that key phone won't send FAX signal, ISDN trunk will send Speech protocol as always when key phone accesses it. So, this parameter only affects telephone devices that are installed on SLT ports when they access the ISDN trunk line.

| IP | 0 | 1 |
|----|---|--|
| 02 | ISDN trunk sends 3.1K protocol when SLT accesses it. | ISDN trunk always sends Speech protocol when SLT accesses it. |

03. Reserved

04. Reserved

05. Reserved

06. Reserved

07. Reserved

08. Reserved

Program 05-16-IP : System Timing Parameters – 16

05-16-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------|---------------------------------|
| 01 | 0-1 | 0=Disable | Midnight Reset |
| 02 | 0-1 | 0= | Reserved |
| 03 | 0-8 | 0=One Level | DISA Single Digit Dialing Level |
| 04 | 0-8 | 0=Disable | VMU language Service |
| 05 | 0-9 | 0= | Reserved |
| 06 | 0-1 | 0= | Reserved |
| 07 | 0-3 | 0= CTI | ACP Data Output Format |
| 08 | 0-3 | 0= | Reserved |

01. Midnight Reset

When this parameter is set to enable, system will restart the system at midnight and clear all Ram data. If set to 2, system will also force all VM channels to be cleared

| IP \ Value | 0 | 1 | 2 |
|------------|---------|--------|---------------------------------|
| 05-16-01 | Disable | Enable | Enable & Clear all VM channels. |

02. Reserved

03. DISA Single Digit Dialing Level

| IP | Value | Value Description |
|----------|-------|---|
| 05-16-03 | 0 | One level. System plays VMU standard greeting after DISA answers the incoming call. Users can dial either the extension number or the single digit service. |
| 05-16-03 | 1 | Two levels. When incoming call rings in to the system, the external party will hear the "Company Greeting to announce "Press 1 to access different department by single digit service". |
| 05-16-03 | 2 | Two levels. When incoming call rings in to the system, the external party will hear the "Company Greeting to announce "Press 2 to access different department by single digit service". |
| 05-16-03 | n | Two levels. When incoming call rings in to the system, the external party will hear the "Company Greeting to announce "Press n to access different department by single digit service". |
| 05-16-03 | 8 | Two levels. When incoming call rings in to the system, the external party will hear the "Company Greeting to announce "Press 8 to access different department by single digit service". |

04. VMU Language Service

This parameter enables two language services for VMU.

| IP | Value | Value Description |
|----------|-------|---|
| 05-16-04 | 0 | Feature is disabled |
| 05-16-04 | 1 | Press 1 to select second language service. |
| 05-16-04 | 2 | Press 2 to select second language service. |
| 05-16-04 | | |
| 05-16-04 | 8 | Press 8 to select second language service. |
| 05-16-04 | 9 | Play 1 st Language then play 2 nd Language service. |

05. Reserved

06. Reserved

07. ACP Data Output Format

This parameter chooses the output format of ACP data. The format can be plain text or CTI format.

| IP | value | Value Description |
|----------|-------|--|
| 05-16-07 | 0 | CTI format output to RS232. |
| 05-16-07 | 1 | ACP access data will be stored in system. (800 max. records) |
| 05-16-07 | 2 | CTI format output to RS232. |
| 05-16-07 | 3 | Text format output to RS232. |

08. Reserved

Program 05-17-IP : System Timing Parameters – 17

05-17-IP SYS PAR IP = Item Pointer (01-08)
 0 1 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|---|
| 01 | 0-1 | 0= | Reserved |
| 02 | 0-1 | 1=32k | Voice Compression |
| 03 | 0-1 | 0=No | Extension Number Announcement for DISA |
| 04 | 0-8 | 0=0 | DISA & ECF Access Delay Time – Lunch |
| 05 | 0-9 | 0=None | DTMF Caller ID Leading Digits |
| 06 | 0-1 | 0=None | DTMF Caller ID Trailing Digits |
| 07 | 0-2 | 0= No | CID Call Block or Transfer to Voicemail |
| 08 | 0-3 | 0=Disable | Minimum Mailbox Record Time |

Description:

01. Reserved

02. Voice Compression

The default setting for the 256Mb VMU can be 32K or 16K bps compression rate. For customers who want to increase the recording capacity this parameter allows the compression rate to be 16 KBPS. This doubles the available amount of storage time on the VMU while voice quality will be decreased.

| IP \ Value | 0 | 1 |
|------------|---------|---------|
| 05-17-02 | 16K bps | 32K bps |

03. Extension Number Announcement for DISA

The Auto Attendant has two ways of announcement for transferring the call. The standard announcement is “Please hold while I transfer the call.” Optional announcement is “ xxx, Please hold while I transfer the call”. The xxx is the extension number being transferred to. After the above announcement, the system will send Ring-Back tone to external calling party.

| IP \ Value | 0 | 1 |
|------------|--|---|
| 05-17-03 | “ Please hold while I transfer the call” | “ xxx, Please hold while I transfer the call” |

04. DISA & ECF Access Delay Time – Lunch

This parameter sets the timer that a DISA/ECF (External Call Forwarding) trunk will ring assigned stations (set by Program 01-tk-IP, 02-tk-IP) prior to being connected to Auto Attendant (DISA) or another Trunk (ECF) in Lunch mode. Stations can answer the incoming trunk before it is connected to the Auto Attendant or another Trunk.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|------------|---|---|---|---|---|----|----|----|-----|-----|------|
| 05-17-04 | 0 | 2 | 4 | 6 | 8 | 15 | 30 | 60 | 120 | 254 | sec. |

Note: 0 = Incoming trunk connects to Auto Attendant or another trunk without ringing assigned stations.

1-9 =Incoming trunk connects to Auto Attendant or another trunk after 2-254 seconds ringing.

Also see Program 05-01-04 for Day and Program 05-11-4 for Night mode.

05. DTMF Caller ID Leading Digits

This parameter enables/disables the display of leading digits on DTMF Call ID

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|---------|---|---|---|---|---|---|--------|
| 05-17-05 | No code | A | B | C | D | * | # | Note 1 |

Note:

1. Only display normal digits (0,1,2,..., 9)
2. Example: D0289661356C
Leading code =D
Trailing code = C

06. DTMF CLI Trailing Digits

This parameter enables/disables the display of Trailing digits on DTMF Call ID

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|---------|---|---|---|---|---|---|--------|
| 05-17-05 | No code | A | B | C | D | * | # | Note 1 |

Note:

3. Only display normal digits (0,1,2,..., 9)
4. Example: D0289661356C
Leading code =D
Trailing code = C

07. Call Block or Transfer to Voice Mail according to Caller ID Message

This parameter allows the system to reject or send the call to a virtual Voicemail based on the CLI received. When a call is rejected the DSS LED for the line is flashing but there will be no audible ring. CLI numbers to be screened must be specified in Mode 09 system speed dial.

Mode 05-14-06 and 05-05-05 must also be enabled to make this feature happen.

Call blocking by CLI is to screen out unwanted callers. There are four different call blocking situations as follows:

Mode 05-17-07=0

There is no call blocking feature

Mode 05-17-07=1

If there is no CLI information from the incoming call, the LED of that CO line DSS key will be flashing, but no ringing signal to alert the operator.

If there is CLI information from the incoming call and the CLI is matching with the call blocking number that is assigned at Mode 09, the LED of that CO line DSS key will be flashing, but no ringing signal to alert the operator.

Mode 05-17-07=2

If there is no CLI information from the incoming call, the call will be transferred to the virtual voice mail -41.

If there is CLI information and the CLI is matching with the call blocking number that is assigned at Mode 09, the call will be transferred to the virtual voice mail – 41 or 42 or 43 or 40 that is LED flashing without ring.

Note

- 1) If the VMC is not installed, the call will not be transferred to the virtual mail -41. And the LED of that CO line DSS key will be flashing, but no ringing signal to alert the operator.

Mode 05-17-07=4

If there is no CLI information from the incoming call, there is no call blocking feature, the call will be ringing normally with LED flashing.

If there is CLI information and the CLI is matching with the call blocking number that is assigned at Mode 09, the call will be blocked. (LED of that CO line DSS key will be flashing, but no ringing signal to alert the operator)

Associated program modes 09, 05-05-05, 05-14-06, 43-51-05, 43-52-05, 43-53-05

08. Minimum Mail Box Record Time

Some callers will after hearing a personal greeting and then the Beep hang up after a short period. This will then leave a short message usually of silence followed by the sound of a handset being replaced. This parameter will allow messages that do not reach a certain length to be deleted.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|---|---|---|---|---|---|---|---|---|------|
| 05-17-08 | Disable | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | sec. |

Program 05-18-IP : System Timing Parameters – 18

05-18-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 0 8 5 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|--|
| 01 | 0- | 0= | Reserved |
| 02 | 0- | 0= | Hotel Alarm |
| 03 | 0-1 | 0=Disable | Dial out History Feature |
| 04 | 0- | 0= | Reserved |
| 05 | 0- | 0= | Reserved |
| 06 | 0- | 0= | Play Transfer message for ECF |
| 07 | 0-9 | 0= | High Frequency Level of DTMF Generator |
| 08 | 0-9 | 0= | Low Frequency Level of DTMF Generator |

01. Reserved

02. Hotel Alarm

This feature is designed for the Hotel environment but also could be used in other situations. When the user presses an emergency button that provides a short circuit on the pair of an SLT extension line this will trigger an Alarm Ring signal to the console with the LCD message as follow:

| |
|-------------------------------|
| Extension: xx Shower Alarm |
|-------------------------------|

If a user lifts the handset to make an emergency call, but is unable to speak for some reason, after 2 minutes, the console will receive an Alarm Ring with the LCD message as follows:

| |
|--------------------------------|
| Extension: xx Handset Alarm |
|--------------------------------|

| IP \ Value | 0 | 1 |
|------------|----------------------|---------------------|
| 05-18-02 | Disable this feature | Enable this feature |

Note:

Extensions that need this feature should be enabled in mode: 50-STN-08: Hotel Alarm.

03. Dial Out History Feature

This parameter enables a dial out history memory buffer. When this feature is enabled the user can press [Redial] and using the [Up/down] volume keys, scroll through the last 10 dialed out numbers and then pressing the [SPK] key to dial out the numbers.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-18-03 | Disable | Enable |

04. Reserved

05. Reserved

06. Play Transfer message for ECF

This parameter enables the ECF (External Call Forwarding) voice announcement to an incoming caller when they are being transferred to an external telephone number by the system

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 05-18-06 | Disable | Enable |

07. High Frequency Level of DTMF Generator

This parameter modifies the level of the High frequency DTMF Generator.

This should not be modified under any circumstances.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|-------|-----|-------|-------|-------|-------|-------|----|------|------|------|
| 05-18-07 | -16.8 | -2+ | -14.8 | -13.4 | -12.4 | -11.4 | -10.2 | -9 | -8.8 | -7.8 | dBm |

08. Low Frequency Level of DTMF Generator

This parameter modifies the level of the low frequency DTMF Generator.

This should not be modified under any circumstances.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|-------|-----|-------|-------|-------|-------|-------|----|------|------|------|
| 05-18-08 | -16.8 | -2+ | -14.8 | -13.4 | -12.4 | -11.4 | -10.2 | -9 | -8.8 | -7.8 | dBm |

Program 05-19-IP : System Timing Parameters – 19

05-19-IP SYS PAR IP = Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------|---|
| 01 | 0- | 0= | Reserved |
| 02 | 0- | 0= | Reserved |
| 03 | 0- | 0= | Reserved |
| 04 | 0-9 | 0=Disable | VMU Silence Detection |
| 05 | 0- | 0=Australia | Distinctive Ring Selection Australia or New Zealand |
| 06 | 0- | 0= | Reserved |
| 07 | 0- | 0= | Reserved |
| 08 | 0- | 0= | Reserved |

01. Reserved

02. Reserved

03. Reserved

04. VMU Silence Detection

This parameter enables Silence detection for the Voice Mail to disconnect a call after receiving this period of silence from the caller.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---------|----|----|----|----|----|----|----|----|----|------|
| 05-19-04 | Disable | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | sec. |

05. Reserved

06. Reserved

07. Reserved

08. Reserved

Program 06-IP : Relay Assignment

06-St-01 Relay
00

St= Station Number
Value for each Item

| St | Item Value | Relay Description |
|-----|------------------|---------------------------------|
| 000 | 00-06, 10, 11-18 | Relay of Motherboard (Optional) |
| xxx | 00-06, 10, 11-18 | Relay of ACP (extension: xxx) |

Description:

Relays on the Motherboard and ACP are dry-contact type relays. The relay provides no power, only a switching function.

The maximum limit for the voltage and current for the relay contacts is 24Vdc or 90Vac at 1 A.

They are only designed for low voltage control circuits. All Relays are Normally Open contacts and will close on activation of the function for which they have been programmed.

When the St is 000, it means the relay on the motherboard. When the St is a valid station number, it is the relay on the ACP corresponding to that station number..

Assign the required Relays to one of the following functions.

| Item Value | Function |
|------------|------------------------------------|
| 00 | No Operation |
| 01 | Music On Hold |
| 02 | Reserved for future use |
| 03 | Reserved for future use |
| 04 | Trunk loud bell |
| | |
| 05 | Station loud bell |
| 06 | System Alarm |
| 10 | All Paging [#0] |
| 11 | External zone page Group - 1 [#31] |
| 12 | External zone page Group - 2 [#32] |
| 13 | External zone page Group - 3 [#33] |
| 14 | External zone page Group - 4 [#34] |
| 15 | External zone page Group - 5 [#35] |
| 16 | External zone page Group - 6 [#36] |
| 17 | External zone page Group - 7 [#37] |
| 18 | External zone page Group - 8 [#38] |

Program 07-Gp-IP : Flexible Key Group Assignment

07-Gp-IP KEY GRP
TK: nn Gp (Group)= 01-08, IP= (Item Pointer) 01-39 (DSS key number)
TK= Trunk number (nn)

07-Gp-IP KEY GRP
xxx Gp (Group)= 01-08, IP= (Item Pointer) 01-39 (DSS key number)
xxx= Station number

07-Gp-IP KEY GRP
FN: fn Gp (Group)= 01-08, IP = (Item Pointer) 01-39 (DSS key number)
FN: Function Number (ff)

General:

This program assigns 8 groups of Flexible key plans for Key phones.
 Each Key phone can be assigned two groups of functions. (Refer to Program 41-st-(02 & 03)).

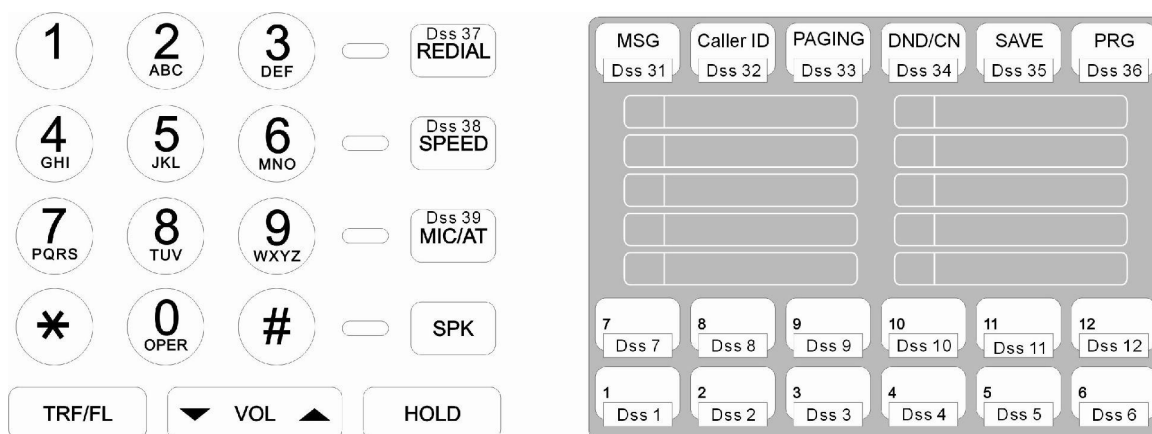
Description:

Each key can be assigned as **Trunk**, **Station** or Special **Function**.

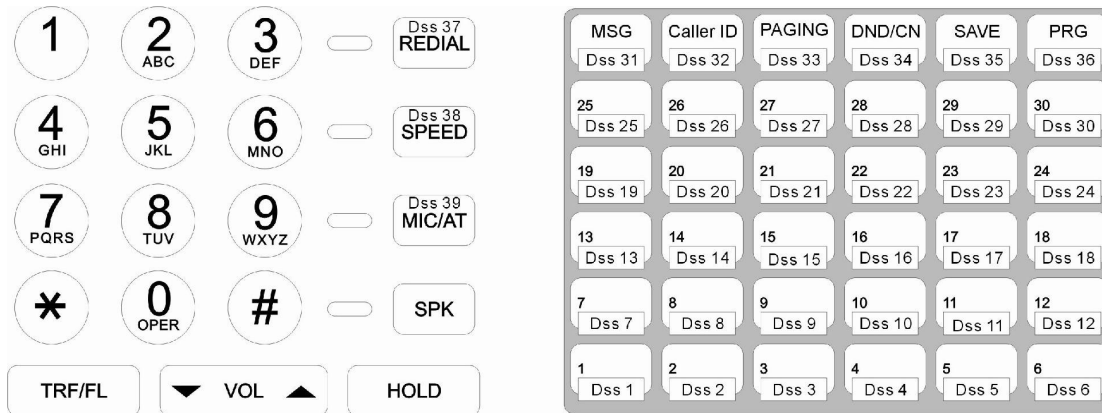
To change the assignment from TK to Station or to Function or vice versa, press the **{Change}** (MIC/AT) key before setting.

- nn** = 01-12 - Trunk Key (1 to 12)
- xx** = 10-69 - Station Key (2 digits)
- xxx** = 100-699 - Station Key (3 digits)
- xxxx** = 1000-6999 - Station Key (4 digits)
- fn** = 00-65 - Function Key (0 to 65)

DK6 – 18 Button Layout



DK6 – 36 Button Layout



The Function for each FN Code

| FN Code | Function | FN Code | Function |
|---------|----------------------------------|---------|--------------------------------------|
| 00 | One Touch DSS Speed Dial | 01 | Program |
| 02 | Do Not Disturb/Conference | 03 | Message Waiting/Pulse-Tone |
| 04 | Microphone/AUTO answer | 05 | Speed Dial |
| 06 | SAVE | 07 | Redial |
| 08 | Volume Up | 09 | Forced Account Code |
| 10 | Voice Set up | 11 | User Speed Dial Set Up |
| 12 | Console User Speed Dial Set up | 13 | Console System Speed Dial Set Up |
| 14 | Station Lock Key | 15 | Help List |
| 16 | Temporary Unlock / Security Code | 17 | Check In |
| 18 | Check Out | 19 | Charge Inquire |
| 20 | All Paging (Internal) | 21 | All Paging (External) |
| 22 | All Paging (Internal/External) | 23 | Zone Paging (Internal) |
| 24 | 1A2 Emulation Privacy | 25 | Voice Mail Transfer Key |
| 26 | Swap (Call Split) | 27 | Answer Machine Emulation |
| 28 | Volume down | 29 | Headset Function key |
| 30 | Zone Paging (Internal) 7 | 31 | Zone Paging (Internal) 8 |
| 32 | Caller ID History | 33 | Zone Paging (External) 1 |
| 34 | Voice Mail On Line Record | 35 | Pickup Own Group |
| 36 | Pickup All Groups | 37 | Pickup Group |
| 38 | Loop Key Group 1 | 39 | Loop Key Group 2 |
| 40 | Loop Key Group 3 | 41 | Loop Key Group 4 |
| 42 | Loop Key Group 5 | 43 | Loop Key Group 6 |
| 44 | Loop Key Group 7 | 45 | Loop Key Group 8 |
| 46 | Toll Password | 47 | Console- Morning Call Assign / Alarm |
| 48 | Alarm Assign | 49 | Console- Set up Alarm |
| 50 | Console- Set up System Time | 51 | Message Select |
| 52 | Day / Night | 53 | Call Forward |
| 54 | Forward Busy | 55 | Forward No Answer |
| 56 | Meet me Page | 57 | Shift Key |
| 58 | Meter Rate Setting | 59 | Hotel/Motel Function |
| 60 | Door Phone | 61 | Reserved |
| 62 | Directory key (for name search) | 63 | Pre-dial key |
| 64 | Day/Night/Lunch key | 65 | |
| 66 | | | |

Note:

1. **[MSG] key: Message.** It is assigned as default function key.
When a message is left on your DK phone, this [MSG] key will be flashing.
First situation:
Extension calls you and presses [MSG] on their phone when you are not available. Your [MSG] key will flash. Pressing this flashing key will call back the caller automatically.
Second situation:
Someone leaves a voice message in your voice mail box, your [MSG] key will flash. Press the flashing [MSG] key to automatically log into your personal voice mail box.
2. **[FN:25] key: Voice Mail Transfer.** It is assigned at Program mode 7, FN code is 25
During the conversation with an outside caller transfer this call to another extension's voice mail box by:
 - a. Conversation with an outside line
 - b. Press [FN:25] key
 - c. Enter the extension number that you want to transfer
 - d. Press [TRF] key to transfer the outside caller to the voice mail box of that extension.

Note:

In the above step d. If you want to hang up instead of press [TRF] key to transfer the call, set the parameter in Program 05-12-01 to 2

3. **[FN:27] key: Answering Machine Emulation.** It is assigned at Program mode 7, FN code is 27
The steps to activate this feature:
 - a. Set Call Forward to station [86] (that is your voice mail box number) for your keyphone.
 - b. Press [FN:27] key will enable the Answering machine Emulation feature.
 - c. Press [FN:27] key again will disable the Answering Machine Emulation feature.

Note:

1. When activated this function allows the caller to set call forward to the Voice Mail as usual but then monitor calls to the Voice Mail from his key phone (on hook) and if they wish can lift the handset and take the call back from the Voice Mail.
2. Another Enable method:
To enable the user presses **[SPK] [7][7][3][1]** and to disable presses **[SPK] [7][7][3][0]**.
4. **[FN:26] key: Swap.** It is assigned at Program mode 7, FN code is 26
An extension can press this function button during a call to swap (Call Split) between two calls on separate trunks. Refer to Program: 44-st-03
5. **[FN:34] key: Voice Mail On Line Record.** It is assigned at Program mode 7, FN code is 34
Record Function:
This function is dependent on the Recording Unit being capable of inserting the recording tone to alert the caller they are being recorded. To record it is necessary for the Key phone to have a **[RECORD]** key which is **[FN 34]**.

Program 08-Gp-IP : Flexible DSS Console Key Group Assignment

| | |
|----------------------------|--|
| 08-Gp-IP KEY GRP TK: nn | Gp (Group)= 01, IP = (Item Pointer) 01-66 (DSS key number) <input type="checkbox"/> TK= Trunk number (nn) |
|----------------------------|--|

| | |
|-------------------------|--|
| 08-Gp-IP KEY GRP xxx | Gp (Group)=01, IP= (Item Pointer) 01-66 (DSS key number) <input type="checkbox"/> xxx= Station number |
|-------------------------|--|

| | |
|----------------------------|---|
| 08-Gp-IP KEY GRP FN: fn | Gp (Group)=01, IP= (Item Pointer) 01-66 (DSS key number) <input type="checkbox"/> FN= Function number (ff) |
|----------------------------|---|

General:

This program assigns 1 group of Flexible key plan for the DSS consoles.

Description:

Each key can be assigned as a **Trunk**, **Station** or special **Function**.

To change the assignment from TK to Station or to Function or vice versa, press the **{Change}** (MIC/AT) key before setting.

nn = 01-12 - Trunk Key (1 to 12)
xx = 10-69 - Station Key (2 digits)
xxx = 100-699 - Station Key (3 digits)
xxxx = 1000-6999 - Station Key (4 digits)
fn = 00-65 - Function Key (0 to 65)

Note: For function code fn, please refer to mode 07. There is no shift key function for the DSS console.

Program 09-nnn-DP : System Speed Dial

| | |
|--|---|
| 09-nnn-DP TK:tt mm nnnnnnnnnnnnnnnnnn | nnn = 100-999 DP = 01-30 tt = 01-12 mm = 40-43 Telephone number |
|--|---|

General:

This program permits the assignment of up to 900 sets of system speed dialing codes. If Names are enabled (default) then only 500 Speed dials are available. If all 500 are allocated with names to System Speed dial then there are no Personal speed dials available for users. In default 100 System Speed dials are enabled (100-199)

Description:

nnn = 100-999 = Speed dial code, up to 900 sets in total.
DP = 01-30 = Digit Pointer for telephone number. 30 digits per speed dial code.
tt = 01-12 = Pre-assigned CO line number.
mm=40 : CLI Call Blocking is enabled. It will not ring but trunk LED will be flashing.
mm=41 : CLI Call Blocking is enabled. The call will be transferred to the virtual voice mail (No. 141).
mm=42 : CLI Call Blocking is enabled. The call will be transferred to the virtual voice mail (No. 142).
mm=43 : CLI Call Blocking is enabled. The call will be transferred to the virtual voice mail (No. 143).

A VM Card must be installed to allow Call Blocking transfer to Virtual Voice Mail to be enabled.
Call Blocking is enabled in Mode 05-17-07.

Press the **[MIC/AT]{Change}** key twice to change or clear the settings for CLI Call Blocking.

Pre-Assigned CO Line

Press the **[MIC/AT]{Change}** key to change or clear the Pre-assigned CO line number. This CO line is the dedicated outgoing line for the speed dial code. If the user presses a speed dial code without selecting a CO line first, the system will select this CO Line automatically. If no CO line is assigned, the system will select an available CO line according to the assigned Dial 9 group (Program 41-nnnn-04). A line may also be selected directly by the user.

Telephone Number

30 digits maximum may be entered in each memory. In addition to the digits 1 to 0, *, # the following can also be stored: Pause, Flash, Pulse to DTMF. Each function occupies one digit.

"Pause" is represented by the **[HOLD]** key. -- P
"Flash" is represented by the **[TRF/FL]** key. -- F
"Pulse to DTMF" is represented by the **{P->T}** key. -- T

i) Pause:

During dial procedures on PSTN line, the dialing will wait for a programmable timer (Refer to Program 05-01-06).
During dial procedures on ISDN line, the dialing will wait for the called party to answer the call.

For example,

Store 29611356ppp506 in speed dial and use this speed dial on ISDN line to dial out. The system will dial 506 in DTMF after the called party answers the call (it could be the Auto Attendant or Voice Mail)

ii) Flash : This will make a loop disconnection of a pre-assigned duration. (Refer to Program 05-02-05).

iii) Pulse to DTMF : If the dialed signal is "pulse", it will change to "DTMF".

Note: Pressing **[DND]{Don't Care}** will erase the digit which the cursor is on.

Pressing **[REDIAL]{CLR ALL}** will erase all the assigned digits.

Associated program: 05-05-05, 05-04-06, 05-17-07, 43-51-05, 43-52-05, 43-53-05.

Program 10-GP-IP : Intercom or DISA Single Digit Assignment

| |
|--|
| 10-Gp-IP S.D.I. 000 000 000 000 000 |
|--|

Gp = 01-08, IP = Item Pointer (01-05)
Station number for single digit dialing (1 to 5)

General:

This program permits calling party to call one or more stations by dialing one digit only. The settings in this Program shall be enabled by Single Digit Intercom (Refer to Program 05-04-07).

Description:

When single digit intercom is enabled then the pre-fix digit (6) of station to station call must be dialed to call another extension.

If a particular group has no entries programmed, the stations in the same number station group will not have single digit dialing and will not have to use the station to station prefix.

Program 11-IP : Date and Time Setting

11-IP Date/Time
08 27 06 18 16 4

IP =Item pointer (01-06)
Value for each Item

| IP | Value | Item Description |
|-------|-------|--------------------------------------|
| 11-01 | 01-12 | Month..... |
| 11-02 | 01-31 | Day..... |
| 11-03 | 00-99 | Year..... |
| 11-04 | 00-23 | Hour..... |
| 11-05 | 00-59 | Minute..... |
| 11-06 | 1-7 | Week day (Monday = 1, Tuesday = 2).. |

General:

This program set up the system's Date & Time.

Description:

The Date & Time will be held during power failure of G1E plus. There is no need to reset the Date & Time after power is restored.

Program 12-nn : System Alarm Clock

12-nn Alarm
hh mm dd

nn = Alarm schedule (01-10)
Setting Time

| Location Pointer | Program Data | Program Data Description |
|---------------------|-----------------|-----------------------------|
| ----- | ----- | ----- |
| hh | 00-23 | Hour. |
| mm | 00-59 | Minute. |
| dd | 00-99 | Duration. |

General:

This program permits the assignment of 10 time schedules for alarm clock purposes.

Description:

When the assigned time is reached, Background music will be broadcast over all idle Key telephones. The time duration for alarm clock music is programmable (00 to 99 minutes.).

Lifting the handset and returning it to the cradle or pressing the SPK key will cause the background music to cease on that telephone only.

Program 13-nn : Password

13-nn Password
ddddddd

nn = Assigned Password Number (01-08)
Setting password

General:

This program permits the assignment of 9 different passwords in the system.

Description:

The password length is from 1 to 8 digits. All unused digit positions must be padded with 'd'.

| nn | Password Description |
|----|--|
| 1 | Programming Password. Default is None |
| 2 | DISA Password. Default is 3472 |
| 3 | Toll Free. Default is 8655. |
| 4 | DISA Monitor. Default is 1234 |
| 5 | Reserved |
| 6 | Silent Alarm password. Default is 1234 |
| 7 | VMU Password. Default is 1234 |
| 8 | Reserved |
| 9 | Reserved |

Note:

1. DISA Password:
The password is for DISA caller to access another CO line by DISA. Refer to "Program 05-11-05 DISA Special Function Access" Default is 3472 (version of ATA, INT, Italy=___ means not available)
2. VMU Password: Default 1234. The password is used for user to access the voice mail features.

Program 14-01-IP : SMDR Specifications

| | |
|--|--|
| 14-01-IP S.M.D.R. 0 0 0 0 0 2 1 0 0 | IP = Item Pointer (01-08) Value for each Item |
|--|--|

| IP | Value | Default | Item Description |
|----|-------|-----------|----------------------------------|
| 01 | 0-9 | 0=00 Sec. | Call Duration Start Time |
| 02 | 0/1 | 0=Record | Record Incoming Call |
| 03 | 0/1 | 0=Record | Record Local Call |
| 04 | 0/1 | 0=Record | Record Incoming Call No Answer |
| 05 | 0/1 | 0=Yes | Print out the Title |
| 06 | 00-99 | 21=21 | Number of records between titles |
| 07 | 0- | 0= | Reserved |
| 08 | 0-3 | 0=No | Polarity Reversal |

General:

This program assigns the SMDR (Station Message Detail Recording) parameters.

01. Call Duration Start Time

This parameter defines the minimum access time to start recording the SMDR. It is also referred to as a Grace Timer.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|----|----|----|----|----|----|----|----|------|
| 14-01-01 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | sec. |

02. Record Incoming Calls

This parameter determines whether incoming calls are recorded or not.

| IP \ Value | 0 | 1 |
|------------|--------|---------------|
| 14-01-02 | Record | Do not Record |

03. Record Local Calls

The parameter determines whether local calls are recorded by SMDR or ignored. The SMDR report defines whether a call is local or toll by Program 05-03-05.

| IP \ Value | 0 | 1 |
|------------|--------|---------------|
| 14-01-03 | Record | Do not Record |

04. Record Incoming Calls No Answer

This parameter decides whether unanswered incoming calls will be recorded or not.

| IP \ Value | 0 | 1 |
|------------|--------|---------------|
| 14-01-04 | Record | Do not Record |

05. Print out the Title

This parameter determines whether SMDR reports contain the title at the head of each page.

| IP \ Value | 0 | 1 |
|------------|----------------------|-----------------------------|
| 14-01-05 | Print out the Title. | Do not print out the Title. |

06. Number of Records between the Title

This parameter defines the number of records between each Title. It means the total lines of record per page. A setting of 00 will cause a heading to be printed with each call record.

07. Reserved

08. Polarity Reversal

If Polarity Reversal (PR) is disabled, the system will start counting the duration after accessing a CO line.

If Polarity Reversal (PR) is enabled, the system will start counting the duration after the called party answers.

| IP | Value | Value Description |
|----------|-------|---|
| 14-01-08 | 0 | No PR Detection / Normal SMDR format output |
| 14-01-08 | 1 | PR Detection / Normal SMDR format output |
| 14-01-08 | 2 | No PR Detection / Simple SMDR format output |
| 14-01-08 | 3 | PR Detection / Simple SMDR format output |

SMDR OUTPUT DATA FORMAT

| ST. | TK | S | TELEPHONE NUMBER | Account | MM/DD | START | DURATION | RING | UNIT |
|------|----|---|---------------------|----------|-------|-------|-----------|--------|------|
| 112 | 01 | | 001188629645752 | 12345678 | 10/02 | 08:35 | 00:02'35" | | |
| 115 | 02 | | Incoming | 87654321 | 10/02 | 08:45 | 00:10'20" | 00'10" | |
| 000 | 03 | | Incoming no answer | | 10/02 | 12:00 | | 00'35" | |
| 112 | 04 | | 001188629645752 | FAC:01 | 10/02 | 12:10 | 00:02'00" | | |
| 112 | 03 | X | FAC or PSW error | | 10/02 | 12:30 | | | |
| 112 | 05 | X | 001 | | 10/02 | 12:35 | 00:00'05" | | |
| 121 | 01 | # | 0294150100 | | 10/02 | 14:15 | 00:00'55" | | |
| 117 | 01 | * | 0294150100 | | 10/02 | 14:15 | 00:03'10" | | |
| D3 | 05 | | 0418220212 | | 10/02 | 21:01 | 00:02'30" | | |
| D-03 | D | | << D I S A OFF >> | | 10/02 | 21:00 | 00:02'40" | | |
| 112 | 02 | | DDI Num: 94150112 | | 10/02 | 08:45 | 00:10'20" | 00'10" | |
| | 03 | | CLI NoAns:294176288 | | 10/02 | 12:00 | 00:00'00" | 00'35" | |
| 111 | 05 | | CLI Num: 294150100 | | 10/02 | 12:35 | 00:00'05" | 00'05" | |
| | 05 | | DDI NoAns:94150112 | | 10/02 | 12:37 | 00:00'00" | 00'27" | |

TITLE DESCRIPTION:

| | |
|----------------------|--|
| ST = Station No. | 11 to 6999, D = DISA |
| TK = Trunk No. | 01 to 12, |
| S = Status | # = Hold, * = Answered the hold, X = Cut off by toll restrictions. |
| Telephone Number | First 24 digits |
| Account | 8 digits in total of Forced Account Code |
| MM/DD | Month/Day |
| Begin_Time hh:mm | The start time of accessing the trunk line. |
| Duration_Tm hh:mm:ss | Time duration of the call. |
| Ring_Tm mm:ss | Incoming ring time. |
| Unit 00000 | Meter Pulse Count |

CASE EXPLANATION:

| CASE | |
|------|--|
| 1 | October 2, 08:35 A.M., Station 112 made a call (telephone No. is 00116495256611) through line 1. The call lasted 2 minutes and 35 seconds, Account code No. 12345678 was entered for the call and 12-meter pulses were recorded. |
| 2 | October 2, 08:45 A.M., An incoming call on line 2, rang for 10 seconds, station 115 answered the call and stored an Account No. 87654321. |
| 3 | October 2, 12:00 P.M., An incoming call through line 3, rang for 35 seconds, no one answered and the call was abandoned. |
| 4 | October 2, 12:10 P.M., Station 112 made a Long Distance call through line 4 by Forced Account Code 1 and 23 meter pulses were recorded. |
| 5 | October 2, 12:30 P.M., Station 112 made a call by Forced Account Code but was denied because of a wrong code. |
| 6 | October 2, 12:35 P.M., Station 116 made a call, which was restricted. |
| 7 | Line 1 was used by station 121 for 55 seconds then put on hold. One meter pulse was recorded against this station for its section of the call |
| 8 | The held line 1 was answered by station 117 and he occupied the line for 3 minutes and 10 seconds. Four meter pulses were recorded against this station for its section of the call. |
| 9 | Incoming Line 3, using the DISA function, made an outside call 018220212 on line 5. The Duration time is for line 5. 3 meter pulses were recorded for this call. |
| 10 | DISA is completed. The Duration time is for line 3. |
| 11 | Incoming call on an ISDN system. The number displayed is the In dial number dialed by the calling party. The system can be programmed on a station by station basis to select whether calls to that station will display the In dial number dialed or the CLI information of the incoming caller |
| 12 | An incoming call rang for 35 seconds and no one answered. The CLI number of the calling station is displayed. |
| 13 | An incoming call on line 5 (ISDN) was answered by station 111. The SMDR displayed the CLI number (3039415011) of the calling party and the extension number (112) of the calling party. The extension number shown is what the system will receive if the call is from another Transtel with ISDN . The format may be different or non-existent from other telephone systems or on PSTN lines. The system can be programmed on a station by station basis to select whether calls to that station will display the In dial number dialed or the CLI information of the incoming caller. The number 94150100 is the pilot number of the In dial group. |
| 14 | An incoming call rang for 27 seconds and no one answered. The In dial number the calling station dialed is displayed. |

SMDR OUTPUT DATA FORMAT - With CLI Output

| <u>ST.</u> | <u>TK</u> | <u>S</u> | <u>TELEPHONE NUMBER</u> | <u>Account</u> | <u>MM/DD</u> | <u>START</u> | <u>DURATION</u> | <u>RING</u> | <u>UNIT</u> |
|------------|-----------|----------|-------------------------|----------------|--------------|--------------|-----------------|-------------|-------------|
| 112 | 01 | | 001188629645752 | 12345678 | 10/02 | 08:35 | 00:02'35" | | 00012 |
| 112 | 02 | | DDI Num:94150112 | | 10/02 | 08:45 | 00:10'20" | 00'10" | |
| | 03 | | CLI NoAns:294176288 | | 10/02 | 12:00 | 00:00'00" | 00'35" | |
| 111 | 05 | | CLI Num: 294150100 | | 10/02 | 12:35 | 00:00'05" | 00'05" | |
| | 05 | | DDI NoAns:94150112 | | 10/02 | 12:37 | 00:00'00" | 00'27" | |

| <u>CASE</u> | |
|-------------|---|
| 1 | Outgoing call. All information remains as before. |
| 2 | Incoming call on an ISDN system. The number displayed is the In dial number dialed by the calling party. The system can be programmed on a station by station basis to select whether calls to that station will display the In dial number dialed or the CLI information of the incoming caller |
| 3 | An incoming call rang for 35 seconds and no one answered. The CLI number of the calling station is displayed. |
| 4 | An incoming call on line 5 (ISDN) was answered by station 111. The SMDR displayed the CLI number (294150100) of the calling party. The system can be programmed on a station by station basis to select whether calls to that station will display the In dial number dialed or the CLI information of the incoming caller. The number 94150100 is the pilot number of the In dial group. |
| 5 | An incoming call rang for 27 seconds and no one answered. The In dial number the calling station dialed is displayed. |

Note: Maximum of 25 SMDR records can be stored in the system temporarily.

Program 17-nn : Forced Account Code

| |
|----------------------|
| 17-nn FAC CODE dd |
|----------------------|

nn = Forced Account Code (01-99)
FAC code (8 digits max.) Toll class: d(Day) d(Night)

General:

This program creates **99** Forced Account codes.

Description:

The use of forced account codes allows a station user to temporarily bypass the toll restrictions. If a Forced Account Code is assigned to a station during system programming, it becomes the only code capable of bypassing that station's default toll restriction.

The forced account code can be up to eight digits in length. If the system is installed with a call accounting output the entry for a call made using a forced account code will display the code used in the account column. The actual numbers of the code will not be displayed for security reasons, the reading will show FAC:XX. XX is the forced account code number 01 to 99.

The Forced Account Code will not be displayed on the screen of LCD equipped phones when it is entered.

Digit "d" is keyed in by **[DND/CN]** button and means "Any digit " ("don't care").

Digit "_" is keyed in by **[TRF/FL]** button and means "No digit ".

Clear all digits by pressing **[TRF/FL]** to insert a line in place of the original entry.

When entering an account code less than 8 digits in length, enter any remaining digits (up to 8) with "d" (don't care digits). So an entry for a forced account code of 1234 should be entered 1234dddd.

The last two digits dd are for toll class selection – Day and Night. The forced account code will open the call from the stations normal class to the Class set for Day and Night.

First d: for Day time Toll Class.

Second d: for Night time Toll Class.

Caution:

Do not use Redial button to clear forced account code entries as this will insert "don't care" which will allow any digit as a forced account code. This will effectively bypass all other account codes entered in the system. An entry of "ddddddd" will cause any single digit to be accepted as a valid forced account code.

Forced Account codes are also used by the ACP (Access Control Phone) to unlock the door relay of the ACP or system.

The Forced Account Codes may also be used as DISA passwords to allow call accounting to show which user was making an external call using DISA from outside the system. Forced Account Codes 50 to 99 can be used for this purpose. This feature will need to be enabled in Mode 05-11-02.

Program 18-nn-TK : Assign Toll Plan To Trunk Lines

18-nn-tk Toll
0000000000

nn = Toll Plan number (00-09), tk = Trunk No. (01-12)
Toll class for each trunk (class 0-9)

General:

Toll Plan allows the assignment of dialing capabilities dependent upon specific CO lines as well as individual stations. This can be used to restrict dialing capabilities from some stations and to limit specific types of calls to certain special purpose telephone lines.

The Toll Plans are written in Program 51 to 59 and 61 to 66.

Description:

There are total of 10 toll plans can be used.

Each Toll Plan points to a Toll Class depending on the CO line used. It is possible to allow a toll class to have different restriction level on a line by line basis.

A station can have a Day Service toll plan and a Night Service toll plan.

Example 1: Program Mode 18-00 is set to 0000dddddd. Any station in the system which is set to toll class 0 will be unrestricted on lines 1 to 4 but will be unable to dial out on lines 5 to 10.

Example 2: Program Mode 18-01 is set to 111100dddd. Any station in the system which is set to toll class 1 will be restricted by toll class 1 on lines 1 to 4, will be unrestricted on lines 5 and 6 but will be unable to dial out on lines 7 and 10.

To assign toll plans to stations, see Program **41-st-05**, **41-st-06**.

Toll Classes:

| Class | Function | Prog. Mode |
|-------|--|-------------------|
| 0 | Unrestricted | Default |
| 1 | Use Mode 51 for the Unrestricted numbers. Use Mode 61 for the Restricted numbers | Mode 51,61 |
| 2 | Use Mode 52 for the Unrestricted numbers. Use Mode 62 for the Restricted numbers | Mode 52,62 |
| 3 | Use Mode 53 for the Unrestricted numbers. Use Mode 63 for the Restricted numbers | Mode 53,63 |
| 4 | Use Mode 54 for the Unrestricted numbers. Use Mode 64 for the Restricted numbers | Mode 54,64 |
| 5 | Use Mode 55 for the Unrestricted numbers. Use Mode 65 for the Restricted numbers | Mode 55,65 |
| 6 | Use Mode 56 for the Unrestricted numbers. Use Mode 66 for the Restricted numbers | Mode 56,66 |
| 7 | Use Mode 57 for the Unrestricted numbers. | Mode 57 |
| 8 | Use Mode 58 for the Unrestricted numbers. | Mode 58 |
| 9 | Use Mode 59 for the Unrestricted numbers. | Mode 59 |
| * | Use Mode 51-56 for unrestricted numbers. Use Mode 61-66 for all restricted numbers | |
| D | Cannot access the trunk line. | |

Program 20-nn- : Set Day – Time / Lunch Time Schedule

20-nn Day Time

00 00 00 00 00 00 00 00

nn = Day schedule pointer (00-06)

Setting data

General:

This program assigns day, night and lunch time from Sunday to Saturday for automatic night switching.

Description:

The system is capable of switching automatically between Day / Lunch break / Night settings using the time parameters set in this program. To change from manual to automatic night switching the console presses **[PRG]** **[TRF/FL]** **[*]**. Pressing **[*]** toggles between the 3 modes.

If a Function key has been set to function 52 then pressing this key will change from Day to Night by one touch button but will not change between Automatic and Manual switching. The meaning of nn as follow:

00 = Sunday

02 = Tuesday

04 = Thursday

06 = Saturday

01 = Monday

03 = Wednesday

05 = Friday

Example:

20-01 Day Time

08 30 17 00 12 30 13 30

On Monday the system will switch from Night time to Daytime start at 8:30 in the morning, will switch to lunchtime start at 12:30, switch back to daytime at 13:30 and switch to Night time at 17:00. To program no lunchtime, enter 00 from items 05 to 08.

Example:

Items: 01 02 (hh : mm) = the time switching from Night Time to Daytime = 08 30

Items: 03 04 (hh : mm) = the time switching from Daytime to night Time = 17 00

Items: 05 06 (hh : mm) = the time switching to Lunch Time = 12 30

Items: 07 08 (hh : mm) = the time switching to Daytime = 13 30

During Lunch Mode the system will change to night ring assignment and Auto Attendant or ACD settings but will play a different Lunch time message.

Program 25 : Reset Data to System Default

25 - Reset Data 0 - 9 Default

General:

This program resets all data to System Default. All new systems must be reset to default before any programming in case corruption has been caused during handling or shipping. It will also be necessary to reset to default after a software upgrade is installed. When using item 3 or 4 these must be done AFTER the system reset is performed.

Description:

1 = System data will be reset to system default except System Speed Dial Programming.

2 = The system data will be totally reset to system default.

WARNING: All user-defined data will be lost.

3 = For all Stations

44-st-02=1 (Hold Feature restricted)

44-st-03=1 (Call Split Feature restricted)

This feature is for Hotel/Motel operation. After setting this Mode, it is necessary to reprogram the Console and any Administration phones in Mode 44-st-02 to allow them to place calls on hold.

4 = For all Stations

40-st-01=0 (Barge In not allowed)

40-st-02=0 (Monitor not allowed)

It is strongly recommended that this parameter is used on ALL systems to prevent accidental Barge In operations being misinterpreted as cross talk. In some software versions these settings are 0 in default. All other system programming information remains unchanged when using 3 or 4.

6 = Voice Prompt Copy – On-Board AA to VMU

This parameter transfers AA Greeting messages from the MBU AA Flash to the VMU Flash.

This feature takes several minutes to achieve. Do Not interrupt. When the transfer is in operation the LED on the VMU and the LED on the MBU adjacent will fast flash in unison until the transfer is complete.

7 = Voice Prompt Copy – VMU to On-Board AA

This parameter transfers AA Greeting messages from the VMU Flash to the MBU Flash.

This feature takes several minutes to achieve. Do Not interrupt. When the transfer is in operation the LED on the VMU and the LED on the MBU adjacent will fast flash in unison until the transfer is complete.

8 = Reset all Voice mail Box message

This parameter will clear voice message that stored in all voice mail box

9 = Reset DSP

Activate the DSP circuit in the motherboard of G1E+ and keep the rest of system still working normally.

It is used when DSP stop working and user doesn't wish to reset the entire system.

= update the loader, LCD displays "Update Loader SW", Press [1] to update loader.

Program 29-tk-IP : Trunk Specifications – 2

29-tk-IP TK SPEC
0 0 0 2 0 0 0 0

Tk=Trunk No. (01-12), IP = Item Pointer (01-08)
Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-------------------------------------|--|
| 01 | 0-1 | 0= 0 db | Trunk Receive Gain |
| 02 | 0-8 | 0=Disable | ACD-1 Function Enable |
| 03 | 0-9 | 0= 0db | Trunk Transmit Gain |
| 04 | 0-8 | 2= Frequency 2 | Set Ring Frequency (DK Handsets) |
| 05 | 0-9 | 0=All Stations | Allow Audible Ring for Incoming Calls |
| 06 | 0-1 | 0=Disable | Polarity Reverse Detection. Individual Trunk-outgoing. |
| 07 | 0-9 | 0=Disable | CO Delayed Ring Timer to Hunting Group |
| 08 | 0-9 | 0=The 1 st Hunting Group | CO Delayed Ring Overflow Hunting Group |

General:

This program permits each trunk line to be assigned different parameters.

01. Trunk Receive Gain

This parameter adjusts the TKU interface receive gain to adapt to different CO loop resistance. For long loop situation where the receive audio may be low. This parameter will allow receive loudness to be boosted.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 29-01-01 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | db |

02. ACD-1 Function Enable

This parameter enables or disables the ACD-1 function for each trunk individually and is able to select whether ACD-1 operates in Day or Night or Both Modes.

| IP | Value | Day Time | Night Time |
|----------|-------|------------------------------|------------------------------|
| 29-tk-02 | 0 | Disable ACD function | Disable ACD function |
| 29-tk-02 | 1 | Disable ACD function | Enable ACD function (Note 1) |
| 29-tk-02 | 2 | Disable ACD function | Enable ACD function (Note 2) |
| 29-tk-02 | 3 | Enable ACD function (Note 1) | Disable ACD function |
| 29-tk-02 | 4 | Enable ACD function (Note 1) | Enable ACD function (Note 1) |
| 29-tk-02 | 5 | Enable ACD function (Note 1) | Enable ACD function (Note 2) |
| 29-tk-02 | 6 | Enable ACD function (Note 2) | Disable ACD function |
| 29-tk-02 | 7 | Enable ACD function (Note 2) | Enable ACD function (Note 1) |
| 29-tk-02 | 8 | Enable ACD function (Note 2) | Enable ACD function (Note 2) |

Note

1: Enable ACD-1 function only when all ring assigned stations are busy.

2: Enable ACD-1 function when Program 05-09-06 timer has elapsed even if ring assigned stations are idle.

03. Trunk Transmit Gain

This parameter adjusts the TKU interface's transmit gain to adapt to different CO loop resistance. For long loop situation where the transmit audio may be low. This parameter will allow transmit loudness to be boosted.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|---|---|---|---|---|---|---|---|---|---|------|
| 29-01-03 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | db |

04. Set Ring Frequency (DK Handsets)

This feature allows each trunk to ring at DK handsets with its own individual ring frequency and override the frequency set by the user for all calls.

| | | |
|------------|--------------------------------------|---|
| IP \ Value | 0 | 1-8 |
| 29-01-03 | As per the key phone's ring setting. | Use the ringing frequency 1~8 of key phone as the trunk's ring. |

05. Allow Audible Ring for Incoming Calls

This feature allows either some or all stations which are ring assigned in Program Mode 01 or 02 to receive the audible ring signal when a trunk rings at the station. If the audible signal is disabled the station will still be able to answer a call by lifting the handset only, if they are ring assigned in Program Mode 01 or 02

- 0 = All stations assigned in Mode 01 & 02 will receive audible signal for an incoming call
- 1 = Only the first station assigned in Mode 01 & 02 will receive audible signal for an incoming call. Other ring assigned stations will still be able to answer a call by lifting the handset only
- 2 = The first 2 stations assigned in Mode 01 & 02 will receive audible signal for an incoming call. The other ring assigned stations will still be able to answer a call by lifting the handset only
- 3 to 8.....
- 9 = The first 9 stations assigned in Mode 01 & 02 will receive audible signal for an incoming call. Other ring assigned stations will still be able to answer a call by lifting the handset only.

06. Polarity Reverse Detection – Individual trunk-Outgoing

This parameter allows individual trunks to be enabled to detect Polarity Reverse on B party answer without having to enable all trunks in system wide. This allows system to have a mix of lines, some of them will have reversal detection and some not. Program Mode 14-01-08 will enable system wide Polarity Reversal settings.

| | | |
|------------|---------|--------|
| IP \ Value | 0 | 1 |
| 29-01-06 | Disable | Enable |

07. CO Delayed Ring Timer to Hunting Group

This parameter sets the delayed ring time for an incoming call to the hunting group. If the stations in the Ring Assignment (Mode 01/02) do not answer the incoming call within below timing, the call will overflow to the pre-assigned hunting group (Mode 29-TK-08). The Ring assigned stations will continue to ring.

| | | | | | | | | | | | |
|------------|----------------------|---|----|----|----|----|----|----|----|----|------|
| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
| 29-01-07 | Disable this feature | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | sec. |

Related System Programming Mode: 29-Tk-07, 29-Tk-08, 67, 68, 69

08. CO Delayed Ring Overflow Hunting Group

This parameter sets the pre-assigned overflow Hunting Group for an incoming call. If the stations in the Ringing Line Preference Assignment (Mode 01/02) do not answer the incoming call within the pre-assigned timing (Mode 29-TK-07), the call will overflow to the pre-assigned hunting group.

| | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|---------------|
| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
| 29-01-08 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Hunting Group |

Related System Programming Mode: 29-Tk-07, 29-Tk-08, 67, 68, 69

Program 35-tk-IP : Trunk Specifications – 1

35-tk-IP TK SPEC
0 1 0 0 3 0 0 0

tk =Trunk No. (01-12), IP = Item Pointer (01-08)
Value for each Item

| IP | Value | Default | Item Description |
|----|-------|---------|----------------------------------|
| 01 | 0-1 | 0=CO | Trunk Type |
| 02 | 0-1 | 1=DTMF | Dialing Signal |
| 03 | 0-8 | 0=No | External Call Forward |
| 04 | 0-8 | 0=No | DISA |
| 05 | 0-3 | 3=Yes | Pick Up |
| 06 | 0-9 | 0=No | Loud Bell |
| 07 | 0-5 | 0=Com | Inward Line Ringing Type - Day |
| 08 | 0-5 | 0=Com | Inward Line Ringing Type - Night |

General:

This program permits each trunk line to be assigned to different parameters.

Description:

01. Trunk Type (CO / PABX)

| IP | Value | Value Description |
|----------|-------|---|
| 35-tk-01 | 0 | Trunk line is Central Office line. |
| 35-tk-01 | 1 | Trunk line is installed behind a PABX or Centrex. |

When user makes a Redial Call, system will automatically add (if trunk line is installed behind PBX) or delete (If trunk line is Central Office line) a leading digit (0 or 9 that is assigned at mode 05-03-04 PBX Outgoing code).

This setting will also force the CLI Delay Ring Time (Mode 05-14-06) for this trunk to 0.

02. Trunk Signal (Pulse / DTMF)

| IP | Value | Value Description |
|----------|-------|--|
| 35-tk-02 | 0 | Trunk dialing signal is Dial Pulse. |
| 35-tk-02 | 1 | Trunk dialing signal is DTMF (Touch-Tone). |

03. External Call Forward – ECF

External Call Forwarding allows an incoming CO line to be re-directed to another location through the use of another CO line. When a CO line senses incoming ringing, it answers the call and accesses another CO line. It then selects a pre-programmed system speed dial number, dials the call and connects the two CO lines together.

External forwarded calls are subject to a call duration limit set in Mode 05-06-06. Valid settings for this option are listed below:

| IP | Value | Value Description |
|----------|-------|------------------------------|
| 35-tk-03 | 0 | No ECF. |
| 35-tk-03 | 1 | ECF to system speed dial 101 |
| 35-tk-03 | 2 | ECF to system speed dial 102 |
| 35-tk-03 | 3 | ECF to system speed dial 103 |
| 35-tk-03 | 4 | ECF to system speed dial 104 |
| 35-tk-03 | 5 | ECF to system speed dial 105 |
| 35-tk-03 | 6 | ECF to system speed dial 106 |
| 35-tk-03 | 7 | ECF to system speed dial 107 |
| 35-tk-03 | 8 | ECF to system speed dial 108 |

04. DISA / ECF (Direct Inward System Access / External Call Forward)

DISA & ECF must be enabled during the time period to be utilized. They may be enabled during day service only or night service only or both day and night service or may be disabled at all times.

The table below shows the valid setting and the resulting status:

| IP | Value | Day | Night |
|----------|-------|--------------------|--------------------|
| 35-tk-04 | 0 | DISA & ECF Disable | DISA & ECF Disable |
| 35-tk-04 | 1 | DISA & ECF Disable | DISA Enable |
| 35-tk-04 | 2 | DISA Enable | DISA & ECF Disable |
| 35-tk-04 | 3 | DISA Enable | DISA Enable |
| 35-tk-04 | 4 | DISA & ECF Disable | ECF Enable |
| 35-tk-04 | 5 | ECF Enable | DISA & ECF Disable |
| 35-tk-04 | 6 | ECF Enable | ECF Enable |
| 35-tk-04 | 7 | DISA Enable | ECF Enable |
| 35-tk-04 | 8 | ECF Enable | DISA Enable |

05. Pick Up

This feature is to assign "Private Lines" in conjunction with the programming of dial 9 groups, or to prevent incoming calls being answered by users other than the ring assigned stations.

| IP | Value | Day | Night |
|----------|-------|---------|---------|
| 35-tk-05 | 0 | can not | can not |
| 35-tk-05 | 1 | can not | can |
| 35-tk-05 | 2 | can | can not |
| 35-tk-05 | 3 | can | can |

Note:

Can = An incoming call on this line can be answered by non-ringing stations.

Can not = An incoming call on this line can not be answered by non-ringing stations.

06. Loud Bell

Refer to Program 06 to assign Relay to operate for a Loud Bell.

| IP | Value | Value Description |
|----------|-------|---|
| 35-tk-06 | 0 | No Operation. |
| 35-tk-06 | 1 | Relay on Motherboard / ACP will be activated when the trunk is ringing. |

Note:

The system does not provide any voltage from the assigned relay. A separate ring voltage and ring device will need to be provided by the installer

07. Inward Line Ringing Method Assignment (Day)

As described in Program 01-tk-IP, there are four ringing methods plus a Private line setting:

COMMON AUDIBLE RINGING

Ring all assigned Extensions simultaneously.

LINEAR RINGING

Attempt to ring the first available Extension in order of the Extensions assigned in **Program 01-tk** if in Day Service or **Program 02-tk** if in Night Service.

CIRCULAR RINGING

The first incoming call on each trunk rings the first assigned extension, the 2nd incoming call on that trunk rings the next assigned extension, etc.

HUNT

Provide the ability to route calls to a main answering position and provide an overflow capability so that backup answering stations can be automatically added as necessary. If an incoming line rings an extension which is busy or does not answer within the assigned Hunt Time (Program **05-08-01**), the call will ring the next available extension assigned in the hunt group (Up to 16). If the next ringing station is busy then the call will immediately move to the next ring assigned extension but if the station does not answer then the call will wait for the Hunt time and then ring the next assigned extension. Once the ring assignment has passed a station which is busy then it will provide Off Hook Busy Remind signal and when the station is free if the call is still unanswered the station will commence ringing for that call. Stations which do not answer a call will also continue to ring until the call is answered.

PRIVATE

This is for an incoming private line. The station that owns this private line can set call forward (All, Busy, No Answer) for this private line to the Voice Mail Port (See Program **43- ST-02**) or off premises.

| IP | Value | Value Description |
|----------|-------|----------------------|
| 35-tk-07 | 0 | Day - COMMON AUDIBLE |
| 35-tk-07 | 1 | Day - LINEAR |
| 35-tk-07 | 2 | Day - CIRCULAR |
| 35-tk-07 | 3 | Day - HUNT |
| 35-tk-07 | 4 | Day - PRIVATE |

08. Inward Line Ringing Method Assignment (Night)

As described in Program 02-tk-IP, there are four ringing methods plus a Private line setting: All settings in item 08 are the same as item 07.

| IP | Value | Value Description |
|----------|-------|------------------------|
| 35-tk-08 | 0 | Night - COMMON AUDIBLE |
| 35-tk-08 | 1 | Night - LINEAR |
| 35-tk-08 | 2 | Night - CIRCULAR |
| 35-tk-08 | 3 | Night - HUNT |
| 35-tk-08 | 4 | Night - PRIVATE |

Trunk Name Entry

1. Enter system programming Mode 35.
2. Pressing **[MIC] {Change}** to enter the Name mode.
3. Input the name for the related trunk by the following function keys.

| Key Pad | Depress 1 time | Depress 2 times | Depress 3 times | Depress 4 Times | Depress 5 Times |
|---------|----------------|-----------------|-----------------|-----------------|-----------------|
| 1 | , | . | : | 1 | Space |
| 2 | A | B | C | 2 | ; |
| 3 | D | E | F | 3 | / |
| 4 | G | H | I | 4 | _ |
| 5 | J | K | L | 5 | - |
| 6 | M | N | O | 6 | ' |
| 7 | P | Q | R | S | 7 |
| 8 | T | U | V | 8 | + |
| 9 | W | X | Y | Z | 9 |
| 0 | ä | ü | ñ | ö | 0 |
| * | % | ^ | & | * | (|
| # | \$ | ! | @ | # |) |

4. Press **{SAVE}** to store the data.
5. The next trunk port will be appeared to be set its names.

Program 36-gp-tk : Trunk Group Assignments

| | |
|-----------------------------------|--|
| 36-gp-IP TK GRP 01 02 03 04 05 | gp = Group (01-08), IP = Item Pointer (01-12) trunks to be included |
|-----------------------------------|--|

General:

This program permits each trunk line to be assigned to different Trunk groups. There are eight groups in total.

Description:

In the bottom data-setting area, the trunk number (01-12) means that the trunk is included in the specified group. Press **[REDIAL]** to clear all entries from the table before entering the required trunks. Always set outgoing calls to start from the highest installed trunk and program in descending order to the lowest installed trunk. This will prevent call collision particularly in systems with Single Line Telephones using CO trunks. An additional 8 groups are available by utilizing the groups available in Mode 38 for the dial 87 trunk groups. If a station is allocated no dial 9/0 group in Mode 41-st-04 but is then allocated a Dial 87 group in mode 46-st-01 then this station will use that group as its dial 9/0 group giving a total of 16 groups available.

There are 12 trunks in total in each trunk group.

This parameter will work with the following features:

- . Dial 9 or 0 access to trunk group.
- . Tenant service.

Related System Programming Mode: 36, 38, 41-ST-04, 46-ST-01

Program 37-tk : Busy Out Trunks

37-tk Busy Out
0000000000

tk = Trunk No. (01-12)
Busy out Type

General:

This program permits the trunk line to be locked by a Technician.

Description:

This feature is used when the user does not want to use the trunk or to remove a problem line. When the trunk is set to BUSY OUT, the LCD display on the phone will display "Access denied " when that line button is pressed.

| Value | Item Description |
|-------|--|
| 0 | Line is unlocked |
| 1 | Busy for Outgoing calls |
| 2 | Busy for Incoming and Outgoing calls (set loop on) |
| 3 | Busy for Incoming and Outgoing calls (set line LED on) |

Program 38-gp-tk : Dial 87 Trunk Group Assignments

| |
|-----------------|
| 38-gp-IP TK GRP |
| 01 02 03 04 05 |

gp = Group (01-08), IP = Item Pointer (01-12)
Trunks to be included

General:

This program permits each trunk line to be assigned to different Trunk groups which can be accessed by dialing [87]. There are 8 groups in total. This group will be available to a station in addition to or instead of it's dial 9 group. Always set outgoing calls to start from the highest installed trunk and program in descending order to the lowest installed trunk. This will prevent call collision particularly in systems with SLT'S. Press **[REDIAL]** to clear all entries in the table before entering required trunks.

Description:

This program is different from Program Mode 36-gp-tk. This program is used for dialing [87] or [9] to access a Trunk Line.

Once a dial [87] group has been programmed it will need to be assigned to the stations that are to use it in Mode 46-Stn-01.

Related System Programming Mode: 36, 38, 41-ST-04, 46-ST-01

Program 39-IP : Sensor Assignments

39-STN-IP Sensor
FN S

STN = Station No. (00 / 000 / 0000) 2/3/4 digits
sensor on the motherboard

39-STN-IP Sensor
FN S

STN = ACP station number
Sensor on the ACP

| IP | Value | Item Description |
|-----------|-------|------------------|
| 39-STN-01 | 00-18 | Function No. |
| 39-STN-02 | 0-2 | Sensor Type |

Description:

The G1E-MBU and each ACP provides 1 Sensor.

FN= Function No. S=Sensor Type

Each Sensor can be assigned to one of the following 18 functions.

| FN | Function |
|-------|-------------------------|
| 00 | No Operation |
| 01 | Fire Alarm |
| 02 | Break Alarm |
| 03 | Door Phone 1 |
| 04 | Reserved for future use |
| 05 | Security feature |
| 06-18 | Reserved for future use |

The valid sensor types for sensor on the motherboard:

| S | Item Description |
|---|---------------------------|
| 0 | Disable Sensor function |
| 1 | Normally Open for night |
| 2 | Normally Closed for night |
| 3 | Normally Open day |
| 4 | Normally Closed Day |
| 5 | Normally open Day/Night |
| 6 | Normally Closed Day/night |

The valid sensor types for sensor on the ACP:

| Value | Item Description |
|-------|-------------------------|
| 0 | Disable Sensor function |
| 1 | Normally Open |
| 2 | Normally Closed |

Program 40-stn-IP : Station Class of Service – 1

40-stn-IP STCOS stn = Station No.(2-4 digits), IP = Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|----------------|----------------------|
| 01 | 0-9 | 0= Not allowed | Override Level |
| 02 | 0-9 | 0= Not allowed | Monitor Level |
| 03 | 0-9 | 0=No | Limit Call Duration |
| 04 | 0-3 | 0=No | Station Loud Bell |
| 05 | 0-1 | 0=Yes | Access Paging |
| 06 | 0-1 | 0=Yes | Receive Paging |
| 07 | 0-1 | 0=None | Security Code Status |
| 08 | 00-99 | 00=All | Forced Account Code |

General:

This programming Mode permits each station to be assigned a different Class of Service.

Description:

01. Override Level

Higher level stations can override lower level stations. **Equal levels may override each other**, and lowest levels may not override each other.

| IP \ Value | 0 | 1 | 2 to 8 | 9 |
|------------|---------|--------------|--------|---------------|
| 40-stn-01 | Disable | Lowest level | | Highest level |

02. Monitor Level

Higher level stations can monitor lower level stations. **Equal levels can not monitor each other.**

| IP \ Value | 0 | 1 | 2 to 8 | 9 |
|------------|---------|--------------|--------|---------------|
| 40-stn-02 | Disable | Lowest level | | Highest level |

03: Limit call duration

Conversation will be interrupted by a Busy Tone. A warning tone will be given 10 seconds before the end of the timed duration. (Refer to Mode 05-04-03 to set call limiting action)

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|----------|---|---|----|----|----|----|----|----|----|------|
| 40-stn-01 | No limit | 3 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | min. |

Related System Programming Mode: 05-04-03, 40-st-03

04. Station Loud Bell

Refer to Program 06 to assign Relay to operate for a Loud Bell.

| IP | Value | Default |
|-----------|-------|---|
| 40-stn-04 | 0 | No operation |
| 40-stn-04 | 1 | Operate relay on the motherboard when calls are received on this station. |

The system does not provide any voltage from the assigned relay. A separate ring voltage and ring device will need to be provided by the installer.

05. Access Paging

| IP | Value | Default |
|-----------|-------|---|
| 40-stn-05 | 0 | This station can initiate "All Page" broadcasts. |
| 40-stn-05 | 1 | This station cannot initiate "All Page" broadcasts. |

06. Receive Paging

| IP | Value | Default |
|-----------|-------|--|
| 40-stn-06 | 0 | This station will be included in "All Page" signals. |
| 40-stn-06 | 1 | This station is excluded from "All Page" |

This feature is useful for someone who does not want to be disturbed by paging calls.

07. Security Code Status

| IP | Value | Default |
|-----------|-------|---|
| 40-stn-07 | 0 | The station is unlocked. (Can make outgoing calls.) |
| 40-stn-07 | 1 | The station is locked. (Can not make outgoing calls.) |

If a phone becomes locked accidentally or the user forgets their lock code, this parameter will unlock the phone. There is no way of finding what the lock code was.

08. Forced Account Code

We can assign one of Forced Account Code for this station at this item. There are 99 forced account codes which can be used on the system. Each user can be allocated use of one or all of these. If a station has a Forced Account Code 00-99, the user can key **[PRG][4]** and the force account code to override toll restrictions for one call only.

If the setting is from 01-99 then this Account Code ONLY can be used by the station. If the setting is 00 then the station can use any one or all Account Codes. Refer to Mode 17: Create Forced Account Code

Program 41-stn-IP : Station Specifications

41-stn-IP STSPE
1 1 0 1 0 0 SN

stn = Station No.(2-4 digits), IP = Item Pointer (01-07)
Value for each Item

| IP | Value | Default | Item Description |
|----|-------|---------|-------------------------------|
| 01 | 1-8 | 1=1 | Station Group |
| 02 | 1-8 | 1=1 | Key Group For Key phone |
| 03 | 1-8 | 0=None | Shift Key Group For Key phone |
| 04 | 1-8 | 1=1 | Dial 9 trunk group |
| 05 | 0-9 | 0=0 | Toll plan - Day |
| 06 | 0-9 | 0=0 | Toll plan - Night |
| 07 | SN | | Port Number |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. Station group

This parameter will work together with the following features:

- Call Pickup Group.
- Single Digit Intercom Group
- Paging Group

| IP | Value | Value Description |
|-----------|-------|-------------------|
| 41-stn-01 | 0 | Disable |
| 41-stn-01 | 1-8 | Group 1 to 8 |

To select the station group for this station.

02. Flexible key group assignments for Key phone

This parameter assigns stations to one of 8 flexible key groups.

| IP | Value | Value Description |
|-----------|-------|-------------------|
| 41-stn-02 | 0 | Disable |
| 41-stn-02 | 1-8 | Key Group 1 to 8 |

See Mode 07: Flexible key group assignment for key phone.

03. Shift Key Group for Key phone

Each station can have access to a second soft key group accessed by the **[SHIFT]** key (refer to mode 07). The shift key must be programmed in the first group assigned to the station. When the shift key is used to access the second group then it will light red and override any function assigned to it in the second group.

| IP | Value | Value Description |
|-----------|-------|-------------------|
| 41-stn-03 | 0 | Disable |
| 41-stn-03 | 1-8 | Key Group 1 to 8 |

See Mode 07: Flexible key group assignment to write soft key plans.

04. Dial 9 trunk group/ SLT Port as MOH Source

When a station selects a trunk line by dialing 9, the system finds an available trunk according to the dial 9 group assignment. If a trunk is not in a stations assigned dial 9 group then the station will not be able to make outgoing calls on that trunk.

| IP | Value | Value Description |
|-----------|-------|---|
| 41-stn-04 | 0 | use "Dial [87] trunk group" as "Dial 9 trunk group". (see mode 46-ST-01). That is, Dial 9 can access the "Dial [87] trunk group". Using this setting can extend Dial 9 trunk groups from 8 to 16. |
| 41-stn-04 | 1 | search in the 1st tk group |
| 41-stn-04 | 2 | search in the 2nd tk group |
| | .. | |
| 41-stn-04 | 8 | search in the 8 th tk group |

If the Extension is an SLT port, it can be used as an additional MOH input allowing individual tenants to each have their own Message on Hold. The port is set to type 7 in Mode 43-port-02 then in Mode 41-slt-04 user can allocate which trunk group will use this port as a MOH source. The current drawn from the SLT port MUST be limited to no more than 10ma to prevent damage. A line isolator will achieve this.

| IP | Value | Value Description |
|-----------|-------|--------------------|
| 41-stn-04 | 0 | All Trunk groups |
| 41-stn-04 | 1-8 | Trunk group 1 to 8 |

Related System Programming Mode: 36, 38, 41-ST-04, 46-ST-01

05. Toll plan - Day

This parameter assigns the toll plan to be used by the station in day mode. Refer to Mode 18 for Toll plan details.

06. Toll plan - Night

This parameter assigns the toll plan to be used by the station in night mode. Refer to Mode 18 for Toll plan details.

07. Port Number

This is for checking only, the system will automatically show the correct port number. It is not possible for the user to change or remove this parameter.

In the G1E, the port number consists of 2 digits

| IP | Value | Value Description |
|-----------|-------|--|
| 41-stn-07 | 11~18 | station ports on the G1E-MBU |
| 41-stn-07 | 21~28 | station ports on the 1 st G1E-STU or G1E-SLU card |
| 41-stn-07 | 31~38 | station ports on the 2 nd G1E-STU or G1E-SLU card |
| 41-stn-07 | 41~44 | SLT station ports on MBU |

Program 42-stn-IP : Register Memory Blocks for Individual Speed Dial

42-stn-IP SPD-T
b1 b2

st = Station No. (2-4 digits) IP = Item Pointer (01-02)
blocks (2 max.) for a Station

- b1:** Block 1 of Individual Speed Dial Codes (00-09 or DSS11~DSS20)
b2: Block 2 of Individual Speed Dial Codes (DSS1-10) (Digital phone only)

General:

This program divides sets of **Individual Speed Dial** into blocks for use by Stations.

Description:

The total number of available personal speed dial numbers is determined through system programming.

- If in program **05-04-06**, the Individual Speed Dial Codes are assigned:
 - 500** sets, the maximum blocks in this program are **50** blocks.
 - 400** sets, the maximum blocks in this program are **40** blocks.
 - 300** sets, the maximum blocks in this program are **30** blocks.
- Each block has 10 sets of Individual Speed Dial.
- Each set has up to 30 digits.
- Speed Dial Codes 00~09 shares the same memory block with DSS11~DSS20.
- Each Station can use up to 2 blocks (20 sets of Individual Speed Dial.)
- If names are enabled then the number of blocks available is half.

Example:

42-13-IP SPD-T
01 02

13: Station No. (2-4 digits)
01 02: Station 553 can use block **01** and **02** for Individual Speed Dial (20 sets)

42-15-IP SPD-T
04 00

15: Station No. (2-4 digits)
04 00: Station 105 can use block **04** (10 sets) for Individual Speed Dial (00-09 or DSS11~20), **00** : for no block.

42-18-IP SPD-T
00 03

18: Station No. (2-4 digits)
00 03: Station 550 can use block **03** for Individual Speed Dial (DSS 1-10)

- * Refer to **Keyphone Operation** for the programming of Individual Speed Dial.
- * Be sure to program these parameters before programming speed dial on key phones.

If problems are encountered with stations not being able to program speed dial numbers, check this parameter to be sure that speed dial locations are available to the station. If the station card was installed at the time of system initialization then the blocks will have been allocated automatically.

Refer to Program Mode: 05-04-06, 05-04-05

Program 43-cn-IP : Port Specifications

43-pn-IP Port
nnnn 0 1 0 00 02

pn = Port No. (2 digits) IP = Item Pointer (01-06)
Value for each Item

pn = Port Number (11-56)

11~18: station port on G1E-MBU

21~28: station port on the 1st G1E-STU card.

31~38: station port on the 2nd G1E-STU or G1E-SLU card.

41~44: SLT ports on G1E-MBU.

| IP | Value | Default | Item Description |
|----|-------|--------------|-----------------------------------|
| 01 | nnnn | System | Station Number (2 to 4 digits) |
| 02 | 0-9 | System | Equipment Type |
| 03 | 1-9 | 1=1 | DSS Soft key Plan |
| 04 | 0 | 0= | Reserved |
| 05 | 00-50 | 00= disabled | Voice Mail Box Capacity |
| 06 | 00-90 | 01=1 Minute | Maximum Voice Mail Message Length |

General:

This program permits each port to be assigned different parameters and station numbers.

Description:

01. Station Number

Use this setting to assign station numbers for the Flexible Numbering Plan. The allowed number range is 10-69, 100-699, 1000-6999. If it is necessary to use digits 7 or 8 as part of the station numbering scheme then Mode 05-08-05 must first be set to 8 to prevent confusion between control codes/programming digits and Station numbers.

02. Equipment Type

| IP | Value | Value Description |
|----------|-------|---|
| 43-pn-02 | 0 | None connected |
| 43-pn-02 | 1 | Digital Phone without LCD |
| 43-pn-02 | 2 | Digital Phone with LCD |
| 43-pn-02 | 3 | Not used |
| 43-pn-02 | 4 | Single Line Telephone |
| 43-pn-02 | 5 | DSS |
| 43-pn-02 | 6 | Dual port |
| 43-pn-02 | 7 | SLT Port used as MOH input. |
| 43-pn-02 | 8 | Voice Mail Port |
| 43-pn-02 | 9 | ISDN Device |
| 43-pn-02 | D | Door phone/ACP |
| 43-pn-02 | - | SLT Paging port (press [FLASH] for entering - |
| 43-pn-02 | T | Fax Port (press [MSG] for entering T) |

1) Types 0 to 5 and d are recognized by the system automatically.

2) Type 6 allows an SLT port to be paired to a Digital Extension providing a pseudo Hybrid port. Once set the SLT phone can be given the same extension number as a Digital Extension and when the number is called both Phones will ring. Either phone can answer or once one answers then a call to the same number will show busy. The call can

be placed on hold by one of the extensions and retrieved from the other or can be transferred to other extensions by the normal method. The Station COS of the digital phone will be allocated to the SLT automatically.

3) Type 7 allows an SLT port to be used as an additional MOH input allowing tenanted systems to have different messages played to different trunk groups during Call Hold. Once an SLT port is set to MOH then in Mode 41-slt-04 the port can be allocated to all or individual trunks groups as a hold source.

4) Type – allows the SLT port to be used for an External Paging Port. **Both SLT Music Port and SLT Paging port MUST have a line isolator unit installed.**

5) Type 8 can be assigned to an analog port to enable the system to send DTMF tones identifying a call forwarded call's originating station. A voice Mail port will receive DTMF tones from call forwarded stations identifying the mail box to which the call is intended. The mail box number must be the same as the station number for this parameter to work although Mode 05-10 can insert leading digits before the station number is sent to the Voice Mail and is also able to insert pauses before or during the string. There is also an Enhanced Protocol to provide more information to the Voice Mail unit, see Mode 05-10 for descriptions of the protocols available.

6) Type 9 allows the ISDN Basic Rate to be made an "S" bus

51~52: the 1st Internal ISDN port of the 1st G1E-SIU card, and the default extension number is 141~142

53~54: the 2nd Internal ISDN port of the st G1E-SIU card, and the default extension number is 143~144

55~56: the 3rd Internal ISDN port of the 1st G1E-SIU card, and the default extension number is 145~146

51~56: Virtual Station Port, and the default extension number is 141~146.

(Virtual station port pool same port with SIU S-interface)

7) Type T is Fax port that will receive calls that transferred from trunks that are set to be Fax trunks in Mode 95-Tk-01 if a Fax CNG tone is present when DISA answers the incoming call. One fax station port is allowed.

The way to set up Fax Tone detection is below:

1. Enable DISA feature to answer the call (Mode 35-TK-04 = 3)
2. Enable detect fax tone feature by trunk (Mode 95-TK-01= 1)
3. Set Fax machine number (Mode 43-port-02= T, Pressing [MSG] for T)

03. Flexible DSS Key Group Assignments for DSS Console

This parameter assigns stations to be one of two flexible DSS console key groups.

| IP | Value | Value Description |
|----------|-------|----------------------|
| 43-pn-03 | 0 | Disable |
| 43-pn-03 | 1-2 | DSS Key Group 1 to 2 |

See Mode 08: Flexible DSS console key group assignment for DSS Console.

04. Reserved

05. Voice Mail Box Capacity-Virtual Mail Box

This parameter decides the total mail box message units which can be used by this extension and creates Virtual Mailboxes. The G1E can have 6 virtual mailboxes on ports 51 to 56. These ports are shared with the ISDN "S" bus.

| IP | Value | Value Description |
|----------|-------|-------------------|
| 43-pn-05 | 00 | No mailbox |
| 43-pn-05 | 01 | 5 voice units |
| 43-pn-05 | 02 | 10 voice units |
| 43-pn-05 | 03 | 15 voice units |
| 43-pn-05 | 04 | 20 voice units |
| | ~ | ~ |
| 43-pn-05 | 50 | 250 voice units |

Description:

1. pn= Port Number of Station.
2. The pn of virtual mail box is: 51 to 56

Each voice unit has 30 or 120 seconds storage depending on CF card and Compression rate.

Memory is 128MB / 32 Kbps compression rate:

915 voice units, each voice unit is 30 seconds, total 7.63 hours storage time.

Memory is 1GB / 64 Kbps:

1000 voice units, each voice unit is 120 seconds, total 33.34 hours storage time.

Note:

If any extension in the system dials 86 which is the mailbox access code, the VMU will answer and say “thank you for calling, goodbye”. This tells you that the Station from which you are calling has no mailbox allocated.

06. Maximum Message Length:

To prevent a caller using up all the mail boxes capacity with a single message the length of each individual message is limited to 1 Voice unit in default. The size of voice unit will be changed according to the size of the CF card and the compression rate.

Example

```
43-18-06 Port
118 2 1 0 08 01
```

Means: The total mail box capacity with a 256MB VMC at 32Kbps compression for extension 118 is 40 mins (40 units, 1 minute each) and the maximum length for each voice mail message is 1 Minute .(1 units).

Extension Name Entry

1. Enter system programming Mode 43.
2. Press **[MIC]** to enter into the Name mode.
3. Input the name for the related extension by the following function keys.

| Key Pad | Depress 1 time | Depress 2 times | Depress 3 times | Depress 4 Times | Depress 5 Times |
|----------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1 | , | . | : | 1 | |
| 2 | A | B | C | 2 | |
| 3 | D | E | F | 3 | |
| 4 | G | H | I | 4 | |
| 5 | J | K | L | 5 | |
| 6 | M | N | O | 6 | |
| 7 | P | Q | R | S | 7 |
| 8 | T | U | V | 8 | |
| 9 | W | X | Y | Z | 9 |
| 0 | ä | ü | ñ | 0 | |
| * | % | ^ | & | * | (|
| # | \$ | ! | \$ | # |) |

4. Press **[SAVE]** to store the data.
5. The next extension port will appear and ready to set its names.

Program 44-stn-IP : Station Class of Service – 2

44-stn-IP STCOS
0 0 0 0 1 0 0 0

stn = Station No. (2-4 digits), IP = Item Pointer (01-08)
Value for each Item

| IP | Value | Default | Item Description |
|----|-------|----------|--------------------------|
| 01 | 0-1 | 0=Enable | System Alarm |
| 02 | 0-1 | 0=Enable | Hold feature |
| 03 | 0-1 | 0=Enable | Call Split |
| 04 | 0-1 | 0=No | Manual Line |
| 05 | 0-1 | 1=Enable | Headset Feature |
| 06 | 0-1 | 0=Enable | Use Engineering Password |
| 07 | 0-1 | 0= | Reserved |
| 08 | 0-1 | 0=Music | Station Alarm Signal |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. System Alarm

If the setting is disabled, the station will not receive system alarm clock signals.

| IP | Value | Value Description |
|-----------|-------|--|
| 44-stn-01 | 0 | Enabled - The "System Alarm" signal will be received on this station. |
| 44-stn-01 | 1 | Disabled -The "System Alarm" signal will not be received on this station |

02. Hold Feature

If the setting is disabled, the station will not be able to place calls on hold.

| IP | Value | Value Description |
|-----------|-------|--------------------------------------|
| 44-stn-02 | 0 | Enabled - Hold function allowed |
| 44-stn-02 | 1 | Disabled - Hold function not allowed |

03. Call Split

If the setting is disabled, the station will not be able to activate call splitting function. When activated and the station presses hook flash after placing a call on hold the call will not be retrieved. Dialing 9 (or 0) or 72 will retrieve the held call.

| IP | Value | Value Description |
|-----------|-------|----------------------------------|
| 44-stn-03 | 0 | Call Splitting function enabled |
| 44-stn-03 | 1 | Call Splitting function disabled |

Related System Programming Mode: 07(code 26), 44-st-03

04. Manual Line

If the setting is enabled, lifting the handset of the station will call the operator directly without dialing any digits.

| | | |
|------------|----------|---------|
| IP \ Value | 0 | 1 |
| 44-stn-04 | Disabled | Enabled |

05. Headset Feature

When headset feature is enabled by the user (code is [SPK] [775]) they can then use the [SPK] key to go on or off hook. If this programming mode is disabled the user cannot switch between handset and headset mode.

| | | |
|------------|---------|--------|
| IP \ Value | 0 | 1 |
| 44-stn-05 | Disable | Enable |

06. Use Engineering Password

If the setting is disable, the station is unable to use the engineering password to enter programming mode.

| | | |
|------------|---------|--------|
| IP \ Value | 0 | 1 |
| 44-stn-06 | Disable | Enable |

07. Reserved

08. Station Alarm Signal

This parameter decides what signal the station will hear when a station alarm or Wake-Up Call is activated.

| IP | Value | Value Description |
|-----------|-------|--|
| 44-stn-08 | 0 | (set in Mode 05-05-01) default Back Ground Music |
| 44-stn-08 | 1 | Busy tone |

Program 45-stn-IP : Station Class of Service – 3

45-stn-IP STCOS
0 0 0 0 0 0 0 0

Stn=Station No. (2-4 digits), IP = Item Pointer (01-08)
Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|--|
| 01 | 0-1 | 0=Disable | Intercom Call Limitation |
| 02 | 0- | 0=No | ACP hear BGM at idle state |
| 03 | 0- | 0=No | Ringing volume increase |
| 04 | 0-1 | 0=Yes | Allow Trunk Access |
| 05 | 0-1 | 0=Yes | Intercom Calls To Different Station Groups |
| 06 | 0-1 | 0=Yes | Receive Break Alarm |
| 07 | 0-1 | 0=Yes | Allow Unrestricted Speed Dial |
| 8 | 0-1 | 0=Yes | Record Station's SMDR Data |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. Intercom Call Limitation

If this setting is enabled, the station can not make an intercom call by dialing a station number. Under this condition, the Key Phone still can press a Flexible Key to make an intercom call or the Key Station or Analog phones can call a station using the "Single Digit" feature.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 45-stn-01 | Disable | Enable |

02. ACP Hear BGM at idle state

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 45-stn-02 | Disable | Enable |

03. Incremental Increase Ringing Volume

This parameter enables the incremental increase of Ringing Volume of an incoming trunk if called extension is not answered.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 45-stn-03 | Disable | Enable |

04. Allow Trunk Access

If this function is disabled then the station can not access any trunks for incoming or outgoing calls.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 45-stn-04 | Enable | Disable |

05. Intercom Calls to Different Station Groups

If this function is disabled then stations will not be able to make intercom calls outside their own station group (Mode 41-st-01). This parameter is for use in tenancy arrangements where each company wish's to remain totally separate although some stations can still be allowed this function, for instance a shared Receptionist.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 45-stn-05 | Enable | Disable |

06. Receive Break Alarm

If this parameter is disabled then the station will not receive the Break Alarm signal if one has been programmed in Mode 39.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 45-stn-06 | Enable | Disable |

07. Allow Unrestricted Speed Dial Access

If this parameter is disabled then the station will not be able to access any of the Speed Dial numbers which have been unrestricted in Mode 05-05-03/04 if they conflict with the stations toll restrictions.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 45-stn-07 | Enable | Disable |

08. Record Station's SMDR Data

If this parameter is disabled then calls to and from this station will not recorded or output to the SMDR for the Mini Call Accounting feature. When the Mini Call Accounting feature is enabled (see Mode 14-01-08) then all stations which are used for administration should have this feature disabled to prevent using memory unnecessarily to record their calls. If calls are allowed to accumulate against stations which are not checked in or out regularly then the system memory buffer will become full and calls will not be recorded.

| IP \ Value | 0 | 1 |
|------------|--------|---------------|
| 45-stn-08 | Record | Do not Record |

Program 46-stn-IP : Station Class of Service – 4

46-stn-IP STCOS
1 1 2 3 0 7 d 0

stn= Station No. (2-4 digits), IP = Item Pointer (01-08)
Value for each Item

| IP | Value | Default | Item Description |
|----|----------|------------------------|--|
| 01 | 0-8 | 1= 1 | Dial [87] Trunk Group |
| 02 | 0-9 | 0= 1 | Send Message Wait Signal Level |
| 03 | 0-2 | 2= Auto Answer /MIC On | Automatic Answer Capability / Internal CLIP |
| 04 | 0-7 | 3= Recall | DISA/ISDN In dial Recall Capability |
| 05 | 0-9 | 0= No Limit | Maximum Number Of Transfer Times Allowed |
| 06 | 0-7 | 7= Yes | Door Unlock/DND/CFWD Access |
| 07 | 0-9, d * | 0= d | ACP Door Phone Hunt Grp./Permanent C/FW Grp. |
| 08 | 0-7 | 0= Normal | SLT Ring Cadence Settings |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. Dial [87] Trunk Group

If this setting is from 1 to 8, after the station dials [87] (or dials [9]), the system will automatically search for a free line which is assigned in group 1 to 8 in Program Mode 38.

If the setting is 0, then no dial 87 group is available to this station.

Related System Programming Mode: 36, 38, 41-ST-04, 46-ST-01

02. Message Waiting Level

The Stations assigned higher levels can leave message for stations with the same or lower levels. Ten levels (0-9) are available (9=highest level, 0=lowest level). Stations which are set to 0 can not send a message waiting information but only receive a message waiting from Stations which are class 9.

| IP | Value | Value Description |
|-----------|-------|---|
| 46-stn-02 | 9 | Can do Message Waiting to Stations that are assigned level 0-9 |
| 46-stn-02 | 8 | Can do Message Waiting to Stations that are assigned level 1-8 |
| 46-stn-02 | n | Can do Message Waiting to Stations that are assigned level 1-n |
| 46-stn-02 | 1 | Only receive Message from Stations whose assigned level is > 2. |
| 46-stn-02 | 0 | Can not do or get Message Waiting from others.(lowest level). |

For Hotel / Lodging applications, it is recommended that you assign a message waiting level so that guest telephones cannot leave a message for another station in the system. If you set the guest room to 1 then the room phone cannot leave a message for another station and can ONLY get a message waiting indication from the console operator or the voice mail system.

Message levels of the same value above 0 can leave messages for one another. Lower message levels cannot leave messages for higher levels.

Message level 0 is special design for plain phone without Message facility.

03. Automatic Answer Capability (Keyphone) / Internal CLI (Caller ID) Function

For Digital Key Telephone

This parameter if enabled will automatically switch on the microphone of the station if it receives an intercom call. This setting is independent of whether the system is set to voice or ring signalling for intercom calls.

| IP | Value | Value Description |
|-----------|-------|---------------------------------------|
| 46-stn-03 | 0 | No |
| 46-stn-03 | 1 | MIC permanently on |
| 46-stn-03 | 2 | MIC will switch on for Intercom calls |

For Single Line Telephone (Connected to G1E-SLU or SLT port on MBU):

This enables system to send internal and external CLI(Caller ID) signals to the single line telephone

| IP | Value | Value Description |
|-----------|-------|---|
| 46-stn-03 | 0 | Disable CLI sending to SLT |
| 46-stn-03 | 1 | Enable SDMF (number without name) CLIP sending to SLT |

04. DISA/ISDN In Dial Recall Capability

This parameter affects DISA calls. When a call rings an extension but the station is busy or does not answer (depending on setting) after the voice message announcing the status of the station is heard, the system will recall the operator after the assigned DISA transfer time. Using the settings 1 to 3 the called station will continue to ring until the console answers the call. Using settings 5 to 7 the call will ring the station for 1 cycle (Mode 05-08-06) and then recall to the console and cease to ring the called station. If the parameter is set to 0 then the call will stay at the station until answered or terminated.

| IP | Value | Value Description |
|-----------|-------|---|
| 46-stn-04 | 0 | No Recall to Operator |
| 46-stn-04 | 1 | Recall to Operator when called station is No Answer. |
| 46-stn-04 | 2 | Recall to Operator when called station is Busy. Camp on called station. |
| 46-stn-04 | 3 | Recall to Operator when called station is No Answer/Busy. Camp on called station. |
| 46-stn-04 | 4 | ISDN In dial calls ringing a busy station will receive busy signal. |
| 46-stn-04 | 5 | Recall to Operator when called station is No Answer. No Camp on function. |
| 46-stn-04 | 6 | Recall to Operator when called station is Busy. No Camp on function. |
| 46-stn-04 | 7 | Recall to Operator when called station is No Answer/Busy. No Camp on function. |
| 46-stn-04 | 8 | ISDN In dial calls, recall to Operator when called station is busy. |

05. Maximum Re-Transferred Times

This feature allows the user or the automatic attendant console to re-transfer the same call for the number of times set in this parameter.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | unit |
|------------|----------|---|---|---|---|----|----|----|----|----|-------|
| 46-stn-05 | No limit | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | times |

06. Door Unlock / DND / CFWD Access

This parameter allows or disallows the station from accessing the Door Unlock, Do Not Disturb (DND) and Call Forward (CFWD) features as per the table.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|----------|----------|----------|----------|----------|----------|----------|-------|
| Door Unlock | Disallow | Allow | Disallow | Allow | Disallow | Allow | Disallow | Allow |
| DND | Disallow | Disallow | Allow | Allow | Disallow | Disallow | Allow | Allow |
| CFWD | Disallow | Disallow | Disallow | Disallow | Allow | Allow | Allow | Allow |

07. ACP Door Phone Hunt Group / Permanent Call Forward Group – No Answer

| | | | | | | | |
|------------|---------|---------|---------|-----------|----|-----------|-----|
| IP \ Value | 0 | 1 | 2 | n | 9 | d | * |
| 46-st-07 | Group 1 | Group 2 | Group 3 | Group n+1 | 10 | Program 3 | VMC |

This parameter allocates the Station Hunt Group that the ACP will call if it is programmed as a Door Phone and the Call button is pressed. When setting is d; the ACP will call the extension according to the assignment in Program 3: Door Phone Ring Assignment

If the Extension is not an ACP then this parameter sets the Permanent Call Forward destination Hunt Group on No Answer. If the Station user sets a Call Forward manually then it will override this setting but after cancelling the manual Call forward then this setting will be enabled again.

An entry of * will set permanent Call Forward No Answer to the internal Voice Mail Card. This option should be used when forwarding to the voice mail is desired but calls are **not** answered by Automated Attendant (DISA).

See also Mode 78-st-04: Call Forward Group - Busy.

08. SLT Ring Cadence Settings

If the Station is an SLT then this parameter will set the ring Cadence for calls as follows.

| | | | | | |
|------------|--------|---------------------------|------------------------------|--------------|----------|
| IP \ Value | 0 | 1 | 2 | 3 | 4 |
| 46-stn-05 | Normal | Always Trunk ring pattern | Always Intercom ring pattern | Special Ring | Fax Ring |

Program 47-stn-IP : Hot Line Assignment

47-stn HOT LINE
000

St = Station No. (2-4 digits)
Data. (Extension Mode)

47-stn HOT LINE
SPD:000

St= Station No. (2-4 digits)
Data. (Speed Dial Mode)

General:

This feature allows a user to lift the handset and directly call a specific outside party through System Speed Dial or an Intercom Extension without dialing any digits.

* Pressing **[SPK]** on a Keyphone allows the Hot line to be overridden.

Description:

1. Enter a System Speed Dial Number for an outgoing call or a Station Number for an Intercom call.

Example:

47-115 HOT LINE
SPD:101

115 = Station No. (3 digits)
Speed Dial 101 (for example: 941-5010)

When the user lifts the handset, the System will automatically call 941-5010 through System Speed Dial 101.

2. Press **{MIC}** to select a hot line Intercom. (Press again to go back to SPD assignment), the display shows:

47-115 HOT LINE
00

- Enter an Extension number **118**

47-115 HOT LINE
118

- The system calls Extension **118** when the handset is lifted.

The Hot Line is the recommended method of connecting a Fax machine to the system. Use a spare analog port and make the Fax extension a Hot Line to an unused Speed Dial number and allocate the fax line to be used by that Speed Dial. Do not program any number into the Speed Dial. When the fax goes off line it will select the Fax line and then wait for the Fax to dial the number required.

Program 48-stn-IP : Station Class of Service – 5

48-stn-IP STCOS stn=Station No. (2-4 digits), IP= Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|----------------------|
| 01 | 0- | 0= 0 | Reserved |
| 02 | 0- | 0= 0 | Reserved |
| 03 | 0- | 0= Enable | Group Listen Feature |
| 04 | 0- | 0= 0 | Reserved |
| 05 | 0- | 0= 0 | Reserved |
| 06 | 0- | 0= 0 | Reserved |
| 07 | 0- | 0= 0 | Reserved |
| 8 | 0- | 0= 0 | Reserved |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. Reserved

02. Reserved

03. Group Listen Feature

This parameter enables/disables the Group listen feature that is available on some versions of DK2 and DK6 handsets. When DK phone is operated on Group Listen feature, user places the handset back to the cradle, user may hear the oscillation noise on the speaker. Pressing [MIC] key twice to mute the handset's microphone will eliminate this noise.

Definition of Parameter:

| IP \ Value | 0 | 1 |
|------------|---------------------|----------------------|
| 48-stn-03 | Enable Group Listen | Disable Group Listen |

04. Reserved

05. Reserved

06. Reserved

07. Reserved

08. Reserved

Program 50-stn-IP : Station Class of Service – 6

| |
|---|
| 50-stn-IP STCOS 0 0 0 0 0 0 0 0 |
|---|

Stn=Station No. (2-4 digits), IP = Item Pointer (01-08)
 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|------------------------|---|
| 01 | 0-1 | 0=Disable | ACP Warning Signals |
| 02 | 0-1 | 0=Enabled | Call Forward Indication |
| 03 | 0-1 | 0=CLI | ISDN Incoming Call Display type-Digital phone |
| 04 | 0-1 | 0=Disable | CTI-Extension Status Report |
| 05 | 0-1 | 0=Enable | VMS Leading Digits for Intercom Calls |
| 06 | 0-1 | 0=ACP Relay | ACP Door Unlock Relay |
| 07 | 0-1 | 0=Card or P/Word | ACP Door Open Control |
| 08 | 0-1 | 0=Door Phone / Disable | ACP Phone Operation / Hotel Alarm Type |

General:

This program permits each station to be assigned to a different Class of Service.

Description:

01. ACP Warning Signals

This Parameter enables the warning signals for the ACP/RFID unit. The warning signals are ACP's Case Break-in Alarm and Disconnect Alarm.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 50-stn-01 | Disable | Enable |

02. Call Forward Indication:

This feature will disable the flashing SPK key on a handset that has enabled Call Forward.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 50-stn-02 | Disable | Enable |

03. ISDN Incoming Call Display Type-Digital Phone:

This parameter selects what will be displayed on the screen of an LCD phone when an incoming call is received, either the CLI number or the ISDN In dial number. This will also select what will be displayed on the SMDR output for incoming calls. This setting also allows the naming of In dials or CLI numbers using System Speed Dial Name / numbers. If this setting is a 1 then when an incoming call with CLI or an In dial number rings the G1E will search the System Speed dials and if this number is entered then the name associated with it will be displayed on the screen. Because ISDN CLI currently omits the 0 on CLI It will be necessary to set Mode 84 – Home Area code to correct the settings before searching. The In dial number is entered as the standard 7/8 digit number without area code. The SLT phone on the G1E will only display the calling number not the name.

| IP \ Value | 0 | 1 |
|------------|------------|----------------------------|
| 50-stn-03 | CLI / Name | ISDN In dial Number / Name |

04. CTI-Extension Status Report

Enabling this parameter will output the extensions status report for CTI applications. This parameter will need to be enabled before CTI will work with this station.

| IP \ Value | 0 | 1 |
|------------|---------|--------|
| 50-stn-04 | Disable | Enable |

05. VMS Leading Digits For Intercom Calls

Enabling (disabling) this parameter allows the system to send (not send) the leading digit information of the extension when making an intercom call to the voice mail. This allows the operator to transfer someone's call directly to the selected Voice mail box.

| IP \ Value | 0 | 1 |
|------------|--------|---------|
| 50-stn-05 | Enable | Disable |

Related System Programming Mode: 05-12-05

06. ACP Door Unlock Relay

This parameter can select MBU's relay or ACP relay as Door unlock relay. If the MBU's relay is enabled then both the ACP relay and the MBU's relay will operate for that door phone. This will allow a more secure door opening method when multiple ACP and Door unlocking are used.

| IP | Value | Value Description |
|-----------|-------|---|
| 50-stn-06 | 0 | Use ACP relay |
| 50-stn-06 | 1 | Use G1E-MBU's (Mode 06-00 needs to be assign to '2') and ACP relay |

Related System Programming Mode: 05-12-04, 06

07. ACP Door Open Control

This parameter sets what action is required to open the door lock from an ACP / RFID phone.

| IP | Value | Value Description |
|-----------|-------|--------------------------------|
| 50-stn-07 | 0 | RF Proximity card OR Password |
| 50-stn-07 | 1 | RF Proximity Card AND Password |

08. ACP Phone Operation / Hotel Alarm Type

This parameter offers two features:

When the extension is an ACP phone, the Phone Operation Type is as follow:

| IP | Value | Value Description |
|-----------|-------|--------------------|
| 50-stn-08 | 0 | Door Phone |
| 50-stn-08 | 1 | Wall Mounted Phone |

Description:

1. Door Phone:
Pressing [Bell] button on the ACP will call assigned extension according to Program 3.
2. Wall Mount Phone:
Pressing [Bell] button on the ACP will present dial tone and allow user to enter the dialing digits to make intercom calls or outside line calls. The ACP works as a handsfree key phone.

When the extension is an SLT phone, this parameter enables the Hotel Alarm as follows:

| IP | Value | Value Description |
|-----------|-------|---------------------|
| 50-stn-08 | 0 | Disable Hotel Alarm |
| 50-stn-08 | 1 | Enable Hotel Alarm |

Description:

Hotel Alarm:

When the Hotel guest lifts up his SLT phone without dialing for more than 2 minutes; the hotel console will be rung and the LCD display will show "Hotel Alarm". It is used for the guest who might have some health problems and cannot complete the call to the Console for help.

A Panic button which short circuits the pair of wires of an SLT phone will also trigger this Hotel Alarm feature.

Program (51 to 59)-code-IP : Toll Plans – Allowed Digits – Class 1 to 9

51-code-01 Allow

Code=Code No. (01-16), IP = Item Pointer (01-12)
Value for the Item

General:

This program sets allowed exception numbers for Toll Class 1. These Modes should be read in conjunction with Modes 61 to 66.

Description:

There are 16 codes for each Toll Class and each code contains up to 12 digits

In default any station allocated to Toll Plans 1 to 6 will be able to dial unrestricted until the associated Modes are programmed.

Allowed entries in this Mode are 0 to 9, d and _ . d = Don't care and means that any digit can be dialed in this position. _ = No digit is allowed to be dialed beyond this position. If a digit is allowed as the beginning of a number then the entry should be filled with don't care's to the end of the line or the caller will not be able to dial the full number.

Modes 51 to 56 are used in conjunction with Modes 61 to 66 and Modes 57 to 59 are used independently.

Toll Classes:

| Class | Function | Prog. Mode |
|-------|--|-------------------|
| 0 | Unrestricted | Default |
| 1 | Use Mode 51 for the Unrestricted numbers. Use Mode 61 for the Restricted numbers | Mode 51,61 |
| 2 | Use Mode 52 for the Unrestricted numbers. Use Mode 62 for the Restricted numbers | Mode 52,62 |
| 3 | Use Mode 53 for the Unrestricted numbers. Use Mode 63 for the Restricted numbers | Mode 53,63 |
| 4 | Use Mode 54 for the Unrestricted numbers. Use Mode 64 for the Restricted numbers | Mode 54,64 |
| 5 | Use Mode 55 for the Unrestricted numbers. Use Mode 65 for the Restricted numbers | Mode 55,65 |
| 6 | Use Mode 56 for the Unrestricted numbers. Use Mode 66 for the Restricted numbers | Mode 56,66 |
| 7 | Use Mode 57 for the Unrestricted numbers. | Mode 57 |
| 8 | Use Mode 58 for the Unrestricted numbers. | Mode 58 |
| 9 | Use Mode 59 for the Unrestricted numbers. | Mode 59 |
| * | Use Mode 51-56 for unrestricted numbers. Use Mode 61-66 for all restricted numbers | 000 |
| D | Cannot access the trunk line. | |

Note 1: Default numbers in Mode 61, 62, 63, 65, 66 are: dddddddd

Note 2: Default numbers in Mode 51, 52, 53, 55, 56, 57, 58, 59 are:-----

Note 3: d: Don't care: any digit is allowed in this position.

Note 4: _ : The system does not allow any digits dialed after this symbol.

Default : 59-01=000ddddddddd

Program (61 to 66)-code-IP : Toll Plans – Restricted Digits – Class 1 to 6

| | |
|-----------------------------------|--|
| 61-code-01 Restrict dddddddddd | code= Code No. (01-16), IP =Item Pointer (01-12) Value for the Item |
|-----------------------------------|--|

General:

This program sets Restricted numbers for Toll Class 1. These Modes should be read in conjunction with Modes 51 to 56.

Description:

There are 16 codes for each Toll Class and each code contains up to 12 digits

In default any station allocated to Toll Plans 1 to 6 will be able to dial unrestricted until the associated Modes are programmed.

Allowed entries in this Mode are 0 to 9, d and _. d = Don't care and means that any digit can be dialed in this position. _ = no digit is allowed to be dialed beyond this position. If a digit is allowed as the beginning of a number then the entry should be filled with don't care's to the end of the line or the caller will not be able to dial the full number.

Modes 51 to 56 are used in conjunction with Modes 61 to 66 and Modes 57 to 59 are used independently and do not have an associated restriction table.

In Default stations which are allocated Toll Plans 0 to 6 are able to dial any numbers.

When a station is allocated Toll Plans 7 to 9 they can dial no digits until the plans are programmed.

Mode 51 and 61 combine to produce Toll Plan 1, Mode 52 and 62 combine to produce Toll Plan 2 and so on up to Mode 56 and 66 for Toll Plan 6. Toll Plans 7, 8 and 9 are associated with Mode 57, 58 and 59.

Form 5x Notes

Entries on Form 5x provide exception (allowances) to a condition that is restricted on Form 6x.

In default any station allocated to Toll Plan 2 will be able to dial unrestricted until the associated forms are programmed.

Valid entries in this form are 0 to 9, d and _.

d = Don't care and means that any digit can be dialed in this position. _

_ = No digit is allowed to be dialed beyond this position.

If a digit is allowed as the beginning of a number then the entry should be filled with don't care's to the end of the line or the caller will not be able to dial the full number.

Form 6x Notes

Entries on this form provide dialing restrictions to a telephone subject to this toll plan. If an entry is not followed by a "d"=don't care digit. The system will not consult the corresponding exception (allow) table, Form 5x. The call will be restricted. An entry of "624" will cause a call beginning with the digits 624 to be disconnected.

If an entry is followed by a "d" digit, the system will check the exception (allow) table, Form 5x to see if a valid exception exists.

An entry of "1d" will cause the system to check Form 5x for an exception of 1+additional digits. If an exception is found on Form 5x, the call will be allowed. If an exception is not found, the call will be restricted.

An entry of 1d on Form 6x will check Form 5x for any exceptions. If 1800ddddddd is found, all 1+ dialing will be denied, except for 1-800 calls.

Program 67-gp-IP : Hunt Group Pilot Number

67-Gp HUNT NO
 --- 0

Gp = Group No. (01-10)
 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|------------|----------------------------|
| 01 | 00-10 | | Hunting Group Pilot Number |
| 02 | 0-9 | 0 = Common | Hunting Group Ring Method |

This program sets Pilot Numbers for Hunting Groups 1 to 10 and their ringing method.

01. Hunting Group Pilot Number

There are 10 Hunt Groups available in the G1E. Each Hunt Group is assigned a Pilot Number in this Mode. The pilot number can be any valid unused station number and will have the same number of digits as the station-numbering scheme used in the system (2, 3 or 4). On the G1E Hunt group pilots can be assigned to be rung from Single Digit DISA.

02. Hunting Group Ringing Method

Assign one of 3 ringing methods for each hunting group.

| IP | Value | Item Description |
|----------|-------|--------------------------|
| 67-gp-02 | 0 | Common Ringing |
| 67-gp-02 | 1 | Linear Ringing |
| 67-gp-02 | 2 | Circular Ringing |
| 67-gp-02 | 4 | Common enable CFW |
| 67-gp-02 | 5 | Linear ring enable CFW |
| 67-gp-02 | 6 | Circular ring enable CFW |

Once Hunting Ring Type is set here or in Mode 05-06-08 then ringing this pilot number will access the stations in the group according to the ringing method selected and the order in which they are programmed in Mode 68 (Day) and Mode 69 (Night). Each Hunt Group can be from 1 to 16 stations.

There are 3 types of Ring available, Common, Linear and Circular.

If **Common Ring** is enabled then calling the pilot number will always ring all available stations in which they are programmed in Mode 68 or 69.

If **Linear Ring** is enabled then calling the pilot number will always call the first available station in the order in which they are programmed in Mode 68 or 69.

If **Circular Ring** is enabled then the stations will be called one after the other for each succeeding call until all have taken a call and then the Ring will revert to the beginning of the Ring assignment and then repeat the process.

Rules for Call Forward of calls to Hunt group

Intercom calls to the Hunt group will call forward to an extension, but not to a SPD Dial.

DISA call Hunt group only the first extension in Hunt group can make all call forward to SPD dial .

Stations can remove themselves from receiving Hunt calls by using the DND key but this will also prevent them from receiving direct calls.

It is still possible to call each station in the Hunting group directly by dialing it's own individual station number.

If a station in a Hunt Group has set call forward to a station or another Hunt Group (for instance Voice Mail Group) then only direct calls to the station will be forwarded. If Hunt calls come to the station and it is call forwarded it will still ring for the call for settings 0,1,2 but will follow CFW setting of first station if set to 4,5,6.

Related System Programming Modes: 05-06-08, 67, 68, 69

Program 68-gp-IP : Hunt Group Assignment – Day

| |
|------------------|
| 68-Gp-IP HUNT DA |
| 000 000 000 000 |

Gp = Group No. (01-10), IP = Item Pointer (01-16)
Value for each Item

General:

This program sets Stations into Hunting Groups 1 to 10 for the G1E and assigns the order in which they will be accessed during Daytime.

Description:

There are 10 Hunt Groups available and 16 stations can be assigned into each group for Day and Night time.

There are 3 types of Ring available, Common audible, Linear and Circular.

If Common Audible is enabled then all stations will ring simultaneously.

If Linear Ring is enabled then calling the pilot number will always call the first available station in the order in which they are programmed in Mode 68 or 69.

If Circular Ring is enabled then the stations will be called one after the other for each succeeding call until all have taken a call and then the Ring will revert to the beginning of the Ring assignment and then repeat the process.

It is still possible to call each station in the Hunting group directly by dialing its own individual station number.

Related System Programming Mode: 05-06-08, 67, 68, 69

Program 69-gp-IP : Station Hunt Group Assignment – Night

| |
|-------------------------------------|
| 69-Gp-IP HUNT NI 000 000 000 000 |
|-------------------------------------|

Gp = Group No. (01-10), IP= Item Pointer (01-16)
Value for each Item

General:

This program sets Stations into Hunting Groups 1 to 10 for the G1E assigns the order in which they will be accessed during Night time.

Description:

There are 10 Hunt Groups available and 16 stations can be assigned into each group for Day and Night time.

There are 3 types of Ring available, Common audible, Linear and Circular.

If Linear Ring is enabled then calling the pilot number will always call the first available station in the order in which they are programmed in Mode 68 or 69.

If Circular Ring is enabled then the stations will be called one after the other for each succeeding call until all have taken a call and then the Ring will revert to the beginning of the Ring assignment and then repeat the process. It is still possible to call each station in the Hunting group directly by dialing its own individual station number.

Related System Programming Mode: 05-06-08, 67, 68, 69

Program 70-Cd-IP : ISDN Interface Specifications Program – G1E

70-Cd-IP S/T TYP
111111

Cd = 01-04, IP = Item Pointer (01-06)
Value for each Item

General:

To assign the ISDN interface to “S” interface or “T” interface.

Description:

Cd= 01 is to assign the “S” or “T” interface for the ISDN port on G2-SIU card

| IP | Value | Value Description |
|----------|-------|--|
| 70-01-IP | 1 | “T” interface. It can be connected to “NT” interface of ISDN line. |

Cd= 02 is for test purposes only.

| IP | Value | Item Description |
|----------|-------|-------------------|
| 70-02-IP | 0 | Loopback disabled |
| 70-02-IP | 1 | Loopback enabled |

Cd= 03 is for connection method.

| IP | Value | Item Description |
|----------|-------|--|
| 70-03-IP | 0 | Point to Point (recommend ‘0’ for internal ISDN S interface if only one ISDN device connected) Default setting |
| 70-03-IP | 1 | Point to Multi- point |
| 70-03-IP | 2 | Point to Multi-point and ignore the unknown MSN / DDI number (not assigned in mode 72) |

This application is normally for other ISDN devices (e.g. ISDN TA, ISDN video conference, ISDN card, ...) that are hooked to the NT1 with the G1E.

For Australian networks the usual connection is Point To Point. Network features such as Diversion will only work on Point to Point on the Telstra network

Cd= 04 is for the ISDN PLL (Phase Loop Lock)

| IP | Value | Item Description |
|----------|-------|-------------------------------------|
| 70-04-IP | 0 | ISDN PLL Auto Detection |
| 70-04-IP | 1 | Lock this ISDN line for PLL. Signal |

Program 71-Cd-IP : Calling Line Identification Presentation

| |
|--------------------------------------|
| 71-Cd-IP CLIP Table ddddddddddddd |
|--------------------------------------|

Cd = 01-06, IP = Item Pointer (01-12)
Value for each Item

General:

To assign up to 6 specific numbers that an extension can present to the Exchange on an outgoing call.

Description:

This parameter can substitute CLIP information that will be presented to the Exchange when a Station makes an outgoing call. Not all exchanges will accept and pass on this information and if a CLIP is entered in mode 71 that is not a valid number in the assigned range of the customer the exchange will ignore this information also. Mode 71 contains 6 different tables which once programmed can be allocated to Stations in Mode 78-stn-06. Many exchanges are quite specific in the way they will accept CLIP. Some want local number, some want National number with area code and some want National number with area code but without the leading 0.

Program 72-St : ISDN Called Party Extension Number Assignment

72-Stn ST NUM
dddddddddd 00

Stn= Station Number (2-4 digits)
Value for each Item

General:

To assign an ISDN MSN/DDI number to a station or station hunting group.

Description:

- Each incoming ISDN MSN or DDI number can ring a station or a hunting group.
- If ISDN MSN or DDI number is assigned for a station in this mode and this station is used to make an external call, the called party will receive the ISDN CLI number from this station.
- A Maximum of 12 digits can be assigned.

Example: A

72-112 NUM
29611356dddd 00

If the outside party calls ISDN number 29611356, station 112 will be rung.

Example: B

72-60 NUM
29611356dddd 01

If the outside party calls ISDN number 29611356, station hunting group 01 will be rung.

When assigning a Group to ring for an In dial number, select an unused station number from the ISDN extension ports of 41-48, 51-58 or 61-68 and then assign the In dial number and the Hunt group number.

Program 73-St : ISDN Extension Sub-Address Assignment

73-Stn ST Sub Add
dddd

Stn= Station No. (2-4 digits)
Value for each Item

General:

To assign the ISDN Sub-Address Numbers to the internal extensions.

Description:

- If the ISDN incoming call has the information of the Sub-Address number, system will ring this desired extension directly.
 - Each extension can have its own Sub-Address Number. If there are two extensions that have the same Sub-Address Number, only the first extension can be rung.
- Maximum 4 digits can be assigned.

Example:

73-553 ST Sub Add
1234

Assign an identifying Sub-Address Number 1234 to extension 553 for the ISDN incoming call.

Program 75-Num-IP : LCR - Analysis Table

| | |
|------------------|------------------------|
| 75-Num-IP Dg Tab | Num = Number (001-500) |
| ----- 00 | Value for each Item |

| IP | Value | Default | Item Description |
|-------|-----------------|------------|----------------------------|
| 01-10 | 0~9, *, #, -, d | -, -, -, - | Number of routing analysis |
| 11-12 | 01~20 | 00 | Routing Table |

General:

This program assigns the routing table for the specific dialed number.

Description:

500 specified dialed numbers can be assigned.

20 routing tables can be used.

Each specified dialed number must be assigned to a routing table (routing tables are in Mode 76).

The dialed digits could be 0~9, *, #. 'd' is the wildcards. '-' means no digit.

When a number is analysed and entered into mode 75 the entry must be complete to the end of the entry. If the digit 1 is entered for example it must be followed by dddddddd to the end of the entry.

Related system Programming: 05-13-07, 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

All numbers that need to be dialed have to be analysed in Mode 75 and allocated to a route in Mode 76 to allow the digits to be dialed correctly. Do not forget to allocate a route to 000 as a priority to make certain that this route is not blocked.

Even if a number is not to be modified or rerouted in any way it should be allocated in Mode 75 to go to a route table in Mode 76 which will allow it to select a trunk and dial out using default settings.

Call flow is as follows.

A call is analysed in mode 75 and sent to mode 76.

In mode 76 if the call is to be handled the same 24 hours a day then it should be assigned in part C which has no start or finish time.

The call is assigned a dial 9 group and then sent to a modify table in mode 77 if required.

If the call is to be assigned to a route that has a limited number of available trunks the call can be programmed to a second route if all available trunks in the first route are in use. The second (and third and fourth) routes can assign a trunk group and a modify table each.

If a call is assigned to a Modify table in mode 77 the modify table can if needed remove a specified number of digits from the leading edge of the number and then insert up to 12 digits in their place or it can leave the number intact and insert the digits in the leading edge.

When the LCR programming is complete the feature should be enabled station by station in mode 78-stn-01/02

Program 76-Num-Tm : LCR – Routing Table

76-Num-Tm Rou Ta Num = 01~60 Tm = Time Schedule (A, B, C)
 00 00 0 00 0 00 Setting Value

| IP | Value | Default | Item Description |
|-------|-------|---------|---|
| 01,02 | 00~23 | 00 | Start Hour of this Route Table |
| 03,04 | 00~23 | 00 | End Hour of this Route Table |
| 05 | 0~8 | 0 | 1 st priority trunk group for dialing |
| 06,07 | 00~99 | 00 | Modify table for the 1 st priority trunk group |
| 08 | 0~8 | 0 | 2 nd priority trunk group for dialing |
| 09,10 | 00~99 | 00 | Modify table for the 2 nd priority trunk group |
| 11 | 0~8 | 0 | 3 rd priority trunk group for dialing |
| 12,13 | 00~99 | 00 | Modify table for the 3 rd priority trunk group |
| 14 | 0~8 | 0 | 4 th priority trunk group for dialing |
| 15,16 | 00~99 | 00 | Modify table for the 4 th priority trunk group |

General:

This program assigns different time schedules, the priority to select different trunk groups and the modifying tables for the routing tables.

Description:

20 routing tables can be used for normal operation plus 20 for the first holiday and another 20 for the second holiday. 3 time schedules can be assigned for each routing table.

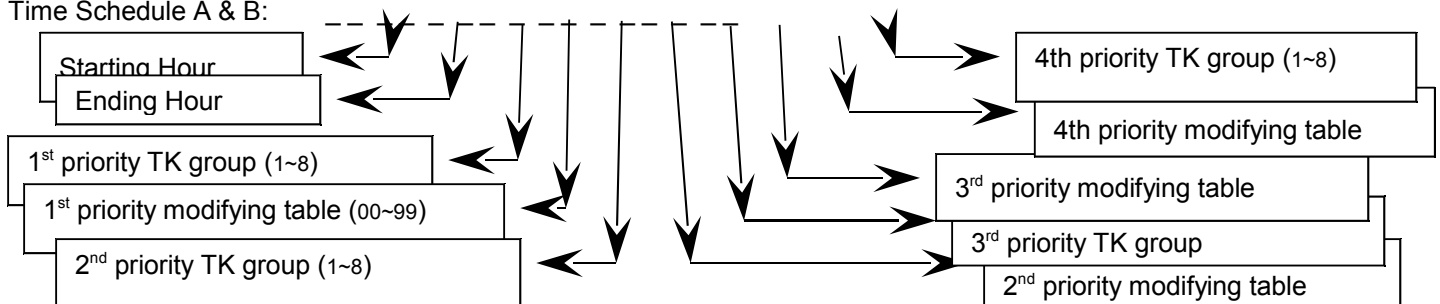
4 priority trunk groups can be assigned for each routing table. (If there is no trunk group assigned here, system will use Dial 9 trunk group instead.)

4 modifying tables can be assigned for each routing table.

For weekly holiday 1, system will refer to 76-(21~40).

For weekly holiday 2, system will refer to 76-(41~60).

Time Schedule A & B:



Time schedule C does not have the Starting/Ending hour setting. Only priority trunk groups and modifying tables need to be assigned. . If only 1 Time Zone is to be used then use Time Schedule C which will automatically cover 24 hours if Schedule A and B are blank.

Related system Programming: 05-13-07. 05-13-08, 36, 41-ST-04, 75, 76, 77, 78-st-01, 78-st-02

Program 77-Num : LCR – Modifying Table

| | |
|------------------|----------------------|
| 77-Num-IP Mo Tab | Num = Number (01~99) |
| 00 dddddddddd | Value for each item |

| IP | Value | Default | Item Description |
|-------|-----------------------|-----------|----------------------|
| 01-02 | 00~10 | 00 | Deleted Digit Length |
| 03-12 | 0~9, *, #, -, d, T, p | ddddddddd | Added Digits |

General:

This program designs the rules for changing the dialed number to the routed number.

Description:

The system will delete the first nn digits (if required) and then add the assigned digits in front of the dialed numbers. Up to 10 digits can be assigned to be inserted.

The added digits can be 0~9, *, #, p, T.

'd' is the wildcard. (DND/CN)

'-' is no digit.

'p' is the pause character. (HOLD)

'T' = means to chain to next modifying table with current one for long digit strings. (MSG)

Related system Programming: 05-13-07, 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

Program 78-stn-IP : Station Class of Service – 6

78-stn-IP STCOS stn= Station No. (2-4 digits), IP=Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each item

| IP | Value | Default | Item Description |
|----|--------|----------------|--|
| 01 | 0-5 | 0= Disable LCR | LCR - Routing Level |
| 02 | 0-1 | 0= Not Allowed | LCR – Direct Access a Trunk |
| 03 | 0- | 0= | Reserved |
| 04 | 0-9, * | 0= None | Call Forward Busy Transfer Group |
| 05 | 0-1 | 0=Disable | External Notification – Voicemail |
| 06 | 0-9 | 0=Mode 72 | Calling Line Identification Presentation |
| 07 | 0-1 | 0=Disable | Ring Line Preference |
| 08 | 0- | 0= | Reserved |

Description:

01. LCR Routing Level

This parameter assigns the LCR routing level for each station.

| IP | Value | Value Description |
|-----------|-------|---|
| 78-stn-01 | 0 | Disable LCR |
| 78-stn-01 | 1 | Allow this station to use the 1 st priority trunk group only. |
| 78-stn-01 | 2 | Allow this station to use the 1 st and the 2 nd priority trunk groups only. |
| 78-stn-01 | 3 | Allow this station to use the 1 st ~3 rd priority trunk groups only. |
| 78-stn-01 | 4 | Allow this station to use the 1 st ~4 th priority trunk groups. |
| 78-stn-01 | 5 | Allow this station to use the 1 st ~4 th priority trunk groups. If there are no available trunks in the 1 st ~4 th priority trunk groups, the system will allow this station to use normal dialing. |

Related system Programming: 05-13-07. 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

02. LCR – Direct Access a Trunk

This parameter assigns the right of the station to select a trunk directly when LCR is enabled.

| IP | Value | Value Description |
|-----------|-------|---|
| 78-stn-02 | 0 | Do not allow to access a trunk direct (need to dial 9 or 0 first). |
| 78-stn-02 | 1 | Allow this station to access a trunk direct (by pressing line key button). System will assign any pre-assigned idle trunk for this extension. |
| 78-stn-02 | 2 | Allow this station to access a trunk direct (by pressing line key button). System will assign a dedicated idle trunk for this extension. Stations which have this facility enabled can only access trunks which are in their own trunk group set in 41-STN-04. LCR Routing will still apply for the calls but only if the LCR route (mode 76) has the trunk group set to 0. This means use station trunk group. |

Related system Programming: 05-13-07. 05-13-08, 75, 76, 77, 78-st-01, 78-st-02

03. Reserved

04. Call Forward Busy Transfer Group

This parameter sets the Permanent Call Forward on Busy to destination Hunt Group for the Station. If the Station user sets a Call Forward manually then it will override this setting but after cancelling the manual Call forward then this setting will be enabled again.

A Value of * will forward busy calls to the system voice mail card.

See also Mode 46-st-07: Call Forward Group – No Answer.

| IP \ Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * | unit |
|------------|---------|---|---|---|---|---|---|---|---|---|-----|-------|
| 78-stn-04 | Disable | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | VMC | Group |

05. External Notification – Voicemail

The system will check stations every 30 seconds looking for new mail messages. If yes, the system will select an idle CO line to dial out xx times according to the setting in mode 78-st-05. After the number is dialed, system will announce “you have x new message, please enter your password” four times. If the entered password is correct and all new messages are heard, system will stop dialing. System will only use one CO line to activate the notification function at a time.

| IP | Value | Value Description |
|-----------|-------|--|
| 78-stn-05 | 0 | Disable the notification. |
| 78-stn-05 | 1 | Dial the specified number 3 times to notify the user. |
| 78-stn-05 | 2 | Dial the specified number 6 times to notify the user. |
| 78-stn-05 | | |
| 78-stn-05 | 9 | Dial the specified number until the user answers and enters correct password |

Note:

- The telephone number that is to be called for notification is assigned when accessing the personal mailbox menu .
The Steps are:
 - Lift handset, dial [86], [password=1234]
 - [4] for message notification, [2] to enable notification
 - Once external notification is enabled, enter the telephone number that is to be called.
 - [#] to finish

06. ISDN Calling Line Identification Presentation

This parameter selects what CLIP information will be presented to the Exchange when a Station makes an outgoing call. Not all exchanges will accept and pass on this information and if A CLIP is entered in mode 71 that is not a valid number in the assigned range of the customer the exchange will ignore this information also. Special CLIP information can be entered in mode 71 which contains 6 different tables.

| IP | Value | Value Description |
|-----------|-------|--|
| 78-stn-06 | 0 | Caller party number follow MODE-72-st to dial |
| 78-stn-06 | 1-6 | Refer to Mode-71 (01-06) |
| 78-stn-06 | 7-9 | CLIR (Calling Line Identification Restriction) |

07. Ringing Line Preference

This parameter sets whether an extension will answer a trunk ringing at that extension by lifting the handset or will need to press the DSS key of the ringing trunk or use pickup if the trunk is not displayed.

| IP \ Value | 0 | 1 |
|------------|-------------|---------------|
| 78-stn-04 | Auto Answer | Manual Answer |

08. Reserved

Program 83-st-IP : Register Memory Block for CLI history buffer

83-stn-IP CLI-T
b1 b2

Stn=Station No. (2-4 digits), IP =Item Pointer (01-02)
blocks (2 max.) for a Station

b1/b2 : Block 1/2 of CLI buffer for each extension

General:

This program divides sets of **CLI history buffer** into blocks for use by extensions.

Description:

- Program **05-13-03**, the Individual CLI history buffers are assigned:

| 05-13-03 | Memory Block Size | Max. Memory blocks |
|----------|-------------------|--------------------|
| 0 | 10 sets/Block | 52 Blocks |
| 1 | 20 sets/Block | 26 Blocks |
| 2 | 30 sets/Block | 17 Blocks |
| 3 | 40 sets/Block | 13 Blocks |

- Each station can use up to 2 blocks.
- The next assigned block must be null or continuous after the first assigned block number for each extension. That means if the first assigned block number is "n" then the next assigned block must be "0 = null" or "n+1".

Example:

Mode 05-13-03=0

83-113-IP CLI-T
01 02

13: Station No. (2-4 digits)
01 02: Station 113 can use block **01** and **02** for CLI history
buffer and it could store 20 sets (=10 + 10).

Mode 05-13-03=1

83-115-IP CLI-T
04 00

15: Station No. (2-4 digits)
04 00: Station 115 can use block **04** (20 sets) for CLI history
buffer. **00**: for no block.

Mode 05-13-03=3

83-118-IP CLI-T
03 00

18: Station No. (2-4 digits)
03 00: Station 118 can use block **03** for CLI history buffer and
it could store 40 sets, **00**: for no block.

Related System Programming Mode: 05-13-03, 83

Program 84-IP : Home Area Code

84-01-01
NNN

NNN = Assigned home area code (3 digits maximum)

General:

This program assigns the home area code for the CLI redial feature.

Description:

- 3-digit input maximum for this entry.
- The home area code can include the toll access code prefix.

Example:

For example, G1E is located in Washington DC.

DC area code is '202'

Set mode 84 to '202'.

- When an analog CO line rings in to G1E system, the received number is 202-296-4575. If you have set mode 84 as above, system will delete "202" and dial 296-4575 for smart redial.
- When analog CO line rings in to G1E system, the received number is 561-224-8920. If you have set mode 84 as above and you have set area code 561 as a 2 on mode 86, system will dial 1-561-224-8920 for smart redial.
- If you set 'ddd' in mode 84, system will dial back the original received number direct.

Program 85-nn-IP : Overlay Area Code

85-nn-01
NNN

nn = 01~05

NNN = Assigned overlay area code (3 digits)

General:

Some larger cities in the United States have exhausted an entire area code. Instead of separating portions and assigning unique area codes to different geographic regions, the telco has instead introduced an overlay area code. This program assigns 5 sets of overlay area code for CLI redial feature.

Description:

- The overlay area code is 3-digit format.
- 5 sets of overlay area code can be assigned for the CLI redial feature.

Program 86-nnn-IP : Office Code Redial Pattern

86-nnn
N

nnn = office code
N = Redial Pattern

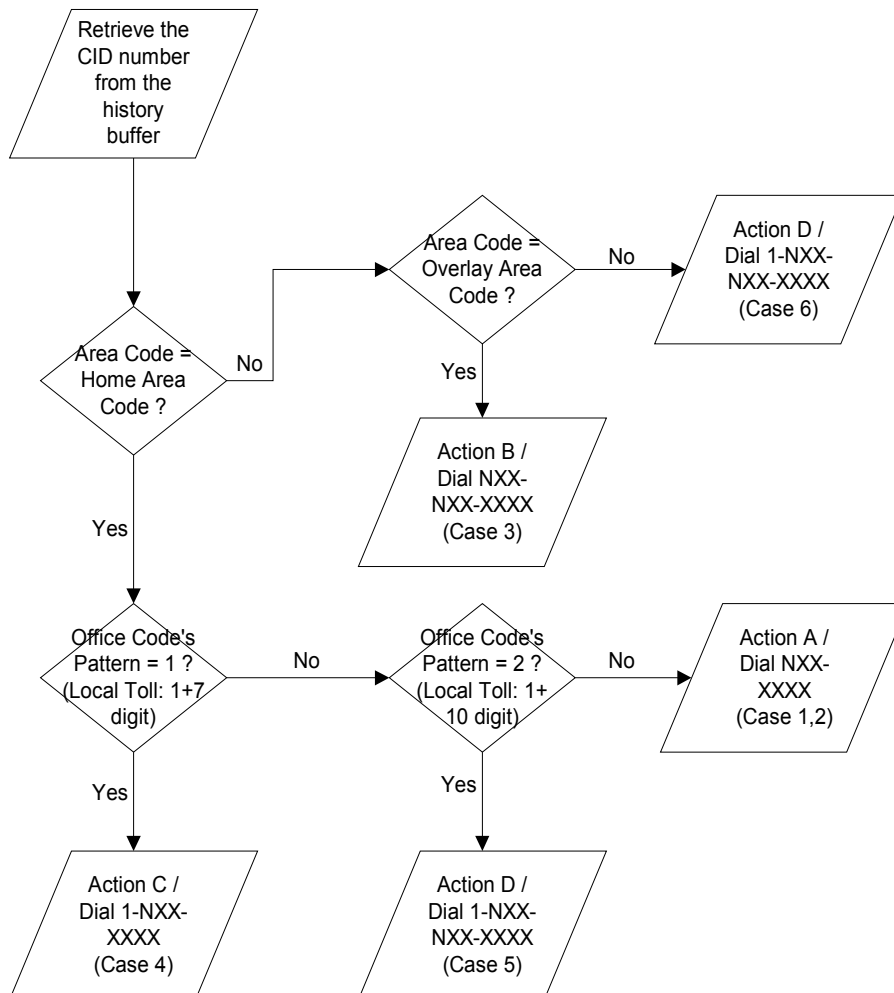
General:

This program assigns the redial pattern for different office codes.

Description:

| N | Item Description |
|---|---|
| 0 | Redial pattern is NXX-XXXX (Local call: 7 Digit) |
| 1 | Redial pattern is 1-NXX-XXXX (Local Toll: 1 + 7 Digit) |
| 2 | Redial pattern is 1-NXX-NXX-XXXX (Local Toll: 1 + 10 Digit) |

CID Redial Feature for USA Market



Program 87-CN-IP : ASSIGN DOOR PHONE FOR KEY CARD

87-nn-01 Card In
0000000000000000

nn=Key card Number (01~99), IP=Item Pointer (01-24)
Setting for each ACP

General:

This program assigns which Key cards (RFID) can be used on which ACP port to unlock a door.

Description:

Before a key card can be used to operate a door relay it must be set to be allowed in this program mode. A key card can be enabled to unlock more than one door if multiple ACP's are installed.

| IP Value | Value Description |
|----------|-------------------|
| 0 | Denied entry |
| 1 | Allowed entry |

| Location | MBU | STU 1 | STU 2 |
|--------------------|-------|-------|-------|
| Extension port No. | 11-18 | 21-28 | 31-38 |
| ACP port No. | 1-8 | 9-16 | 17-24 |

Program 88-DP : REGISTER KEY CARD

Register Card
ST:_____

Station number of ACP

This program registers key cards for use. The station you enter in this field is the extension number of the ACP which you will use to activate the card. It only tells the system which ACP you are using to register the card into the system database. This does not establish a relationship between a card and a specific ACP.

Description:

Before a key card can be used with an ACP it must first be registered to it. Once the key card is registered then it will be necessary to proceed to mode 87 to allow the key card to open the door relay associated with the ACP.

To register a key card enter the station number of the ACP

Register Card
ST:115

Press **SAVE**

Wait Registering
Slide please

Place the Key Card over the Speaker position on the ACP (115 in this case) and when the ACP beeps remove the Key card and press **SAVE**.

Register Store
Card:01

Press **SAVE**

Registration ok!
Card:01

Program 89-CN-IP : DELETE KEY CARD

89-nn-01 Serial nn = card number
FFFFFFFF

General:

This program assigns allows the De-registration of the key cards from a system.

Description:

Enter the number (01-99) of the key card to de-register

De-Register Card
Card:01

Press **SAVE**

89-01-01 Serial
FFFFFFFF

Press **REDIAL** to clear the digits

89-01-01 Serial
00000000

Press **SAVE** and the LCD display will move on to the next Key card number.

89-02-01 Serial
00000000

FFFFFFFF: Means Card was registered.

00000000: Means Card was deregistered.

Program 91-TM : ACP TIME LOCK – Assign Time

91-TM Table
00 00 00 00

TM = Time Schedule (00~15)

General:

This program assigns different time schedules for the ACP time lock. Cards assigned in such programmed period can be used to open the ACP door.

Description:

The first 4 digits are starting time and the last 4 digits are stopping time. There are a total of 16 schedules which can be assigned.

91-00 Table
08 30 17 30

Press **SAVE**, means time schedule 00 is from 08:30 to 17:30.

91-01 Table
21 00 22 00

Press **SAVE**, means time schedule 01 is from 21:00 to 22:00.

Program 92-CN : ACP TIME LOCK – Assign Card

92-CN-01 Card In
TM

CN = Card Number (01~99)

General:

This program assigns different ACP time lock schedule for ACP. Cards assigned in such programmed period can be used to open the ACP door.

TM= 00~15 (Mode 91)

Description:

92-06-01 Card In
02

Press **SAVE**, means card 06 use ACP time lock schedule 02 (mode 91-02).

Program 93 : Not Used in North America

Program 94-tk-IP : Lunchtime Ringing And Ringing Line Preference Assignment

95-tk-IP FLX DAY
11 12 13 14 15

Tk =Trunk No. (01-12), IP=Item Pointer (01-26)
Assigned station number

General:

This program assigns each incoming line to ring the programmed stations during Lunch Time. The ringing methods can be:

LINEAR (ring the first available station),

CIRCULAR (Ring the next station following the last station who just answered an incoming call),

HUNT (Ring the first assigned station for a set period of time (program mode 05-08-01) then if no answer ring the next ring assigned station then the next etc.) or

COMMON AUDIBLE (All stations will ring simultaneously).

See Program Mode: 35-tk-08 to assign. **The G1E Lunchtime ring type will follow the night ring type.** An overflow Ring Hunt Group can be assigned to make additional stations ring after a time interval in addition to this ring assignment. See program Mode 29-07/08. The ringing stations will be the night members programmed in mode 69.

Description:

1. This program sets Lunch Time ringing.
2. The station number can be 2,3,4 digits.
3. A total of 26 stations can be assigned to ring for each trunk.
4. If the location is to be assigned to no station, the location value is set to " 0 ".
5. To clear all entries press **[REDIAL]**.
6. Day and Night ring assignment are set in Mode 01 and 02.

Program 95-tk-IP : Trunk Specifications – 3

95-tk-IP TK SPEC Tk=Trunk No. (01-12), IP=Item Pointer (01-08)
 0 0 0 0 0 0 0 0 Value for each Item

| IP | Value | Default | Item Description |
|----|-------|-----------|------------------------------|
| 01 | 0-1 | 0=Disable | Detect Fax Signal |
| 02 | 0-1 | 0= | Reserved |
| 03 | 0-8 | 0= | Reserved |
| 04 | 0-8 | 0=No | DISA & ECF Lunch Time Enable |
| 05 | 0-3 | 3= | Reserved |
| 06 | 0-9 | 0= | Reserved |
| 07 | 0-5 | 0= | Reserved |
| 08 | 0-5 | 0= | Reserved |

This program permits each trunk line to be assigned different parameters.

01. Detect Fax signal

This parameter is used to enhance the feature of Fax Auto Switch so the G1E will detect the incoming fax signal and transfer it to assigned fax SLT port.

Some company greeting messages may contain audio that falsely triggers an originating (outside) fax machine to think it has reached a Fax machine. Since it starts to wait for a response from the fax machine before the real internal Fax machine answers the call, it can time out. As a result the external sending fax machine disconnects the call before it has been properly routed inside the G1E and answered by the Fax machine connected behind the G1E. This parameter was created to overcome such a situation.

Definition of parameter:

| IP | Value | Value Description |
|----------|-------|---|
| 95-tk-01 | 0 | The trunk won't detect the fax signal. |
| 95-tk-01 | 1 | The trunk will detect the FAX calling tone during the company greeting and route the FAX call automatically |
| 95-tk-01 | 2 | The trunk will delay the company greeting for 5 seconds in order to not false trip the external machine into attempting to send. |
| 95-tk-01 | 3 | The trunk will delay the company greeting for 6 seconds in order to not false trip the external machine into attempting to send. |
| | .. | |
| 95-tk-01 | 9 | The trunk will delay the company greeting for 12 seconds in order to not false trip the external machine into attempting to send. |

If the programmed trunk detects the FAX calling tone, the system will transfer this fax call to the assigned FAX extension automatically (refer to Program Mode 43-CN-02=T). If the programmed trunk does not detect the FAX calling tone during the above timer, the system will then play the company greeting for a normal voice call.

Other programming modes relate this setting:

- a. 43-CN-02 = T (Fax port) => press [MSG] ---- (SLT Port)
- b. 95-TK-01 = 0/1 => disable/enable Fax Tone Detection
- c. 35-TK-04= 3 Enable DISA feature
- d. 46-ST-08= 1 SLT Ring Cadence Settings
- e. 05-01-04= 0 DISA answer delay time

02. Reserved

03. Reserved

04. DISA & ECF Lunch Time Enable

This parameter will enable the DISA or ECF during the lunch time or not. As to the setting for Day will be assign at Program 35-tk-03. Night is Program 35-tk-04 respectively.

| IP \ Value | 0 | 1 | 2 |
|------------|---------|------|-----|
| 95-tk-04 | Disable | DISA | ECF |

05. Reserved

06. Reserved

07. Reserved

08. Reserved

Programming Cross Reference

Incoming Calls

Ringling Assignment

| IP | Item Description |
|-----------|---|
| 01-tk-stn | Day Ringing And Ringing Line Preference Assignment |
| 02-tk-stn | Night Ringing And Ringing Line Preference Assignment |
| 05-01-05 | Busy Reminder Tone Interval (Off-Hook Ringing / Busy - Camp-On) |
| 05-02-07 | Ring On Timer (Minimum ring to be detected) |
| 05-02-08 | Ring Off Timer (Time to hold signal during silent period) |
| 05-08-01 | CO Hunt Interval |
| 05-19-05 | DUET Ring Select (Aust/NZ) |
| 20-nn | Day/Night Service Schedule |
| 29-tk-07 | CO Delayed Ring Timer to Hunt Group |
| 29-tk-08 | CO Delayed Ring Overflow Hunt Group |
| 35-tk-07 | Day Ring Type |
| 35-tk-08 | Night Ring Type |
| 94-tk-Stn | Lunch ring assignment |
| 95-tk-06 | DUET Ring Select and Assignment |

Outgoing Calls

Dial '9'

| IP | Item Description |
|-----------|--------------------------------------|
| 05-04-02 | Dial '9' Enable/Disable |
| 05-06-05 | Operator Code 9/0 |
| 36-grp-tk | Dial '9/0' Group Assignment |
| 38-grp-tk | Dial 87 Group assignment |
| 41-stn-04 | Stations Dial '9/0' Group Assignment |
| 46-stn-01 | Stations Dial '87' Group Assignment |

PABX Outgoing Code

05-03-04 Code for outside line in PABX (If trunk/trunks are served by PABX)

Trunk Specifications

| IP | Item Description |
|----------|--|
| 05-01-06 | Pause Time Duration (For Speed Dial Pauses) |
| 05-01-07 | DTMF Generation Time |
| 05-02-05 | Flash Time to CO (For Special CO Features or Centrex) |
| 05-02-07 | Ring On Time (Minimum ring signal detected) |
| 05-02-08 | Ring Off Time (Time to hold signal during silent period) |
| 05-03-01 | Make/Break Ratio |
| 29-tk-01 | Trunk Receive Gain |
| 29-tk-03 | Trunk Send Gain |
| 29-tk-04 | Trunk Ring Frequency |

| | |
|-----------|---|
| 35-trk-01 | Trunk Type (PABX/CO) |
| 35-trk-02 | Trunk Signalling Type (dial pulse/DTMF) |

Speed Dial

| IP | Item Description |
|--------------|---|
| 05-01-06 | Pause Duration for Speed Dial pauses |
| 05-03-02 | Automatic Trunk Search During Speed Dial, Auto Redial, Saved Redial, etc. |
| 05-04-06 | Speed Dial Distribution |
| 05-05-03/04 | Speed Dial Unrestricted / system |
| 09-spd-xx | System Speed Dial Locations |
| 42-stn-01/02 | Register Memory Block for Personal Speed Dial |
| 45-st-07 | Speed Dial Unrestricted / Station |

Auto-Redial

| IP | Item Description |
|-----------|--|
| 05-02-03 | Auto-Redial Off Hook (wait for answer) Timer |
| 05-03-02 | Automatic Trunk Search |
| 05-05-07 | Auto-Redial Attempts (Quantity) |
| 05-05-08 | Auto-Redial Time (Inter-Call) between attempts |

Intercom Calls

Intercom Call Signalling

- 5.3.3 Intercom call signalling to electronic telephone sets
- 46-st-03 Automatic MIC switching

Step Call

- 05-07-01 Intercom Step Call Type
- 41-stn-01 Station Group Assignment

Dial Tone Pattern

- 05-03-07 SLT Dial Tone Pattern Options
- 05-04-07 Intercom Single Digit Dialing

Single Digit Intercom

- 10-grp-xx Single Digit Dialing Assignment
- 41-stn-01 Station Group Assignment

Direct Station Select

- 07-grp-key Flexible Key Group Assignment
- 41-stn-02 Keyphone Flexible Key Group Assignment

Dial 0 (Call Operator)

- 05-06-05 Operator/CO access codes
- 44-stn-04 Manual Line

Intercom Dialing Restriction

- 45-stn-01 Intercom Dialing Restriction

Busy/During Conversation

Hold and Hold Recall

| IP | Item Description |
|-----------|--|
| 05-01-01 | Hold Recall Timer (Time until station is warned of hold call) |
| 05-01-02 | Exclusive Hold Recall Timer (Same operation as hold recall) |
| 05-01-03 | Hold Recall Time out (Time before call is rerouted to Operator - After Hold Recall Timer has expired.) |
| 05-07-04 | DISA Recall Capability |
| 05-12-03 | Station ability to place call on Exclusive Hold |
| 44-stn-02 | Station ability to hold a call |

Busy Remind / Camp-On

- 5.1.5 Busy Reminder Interval (Time between notifications)
- 5.8.3 SLT Camp On tone

Call Split

- 44-stn-03 Call Split

Transfer

- 05-06-01 Transfer Recall Timer Blind transfer (Camp-On / Busy)
- 05-06-02 Transfer Recall Timer blind transfer (No Answer)
- 05-08-06 DISA No Answer Recall (To Message) Timer
- 05-08-07 DISA Transfer Time (No Digits Dialed)

Message Waiting Level

- 46-stn-02 Message Waiting Level

Override

- 40-stn-01 Override Level

DISA

| IP | Item Description |
|-----------|--|
| 05-01-04 | Delayed DISA Access Time - Day |
| 05-07-04 | DISA Recall Capability |
| 05-08-04 | DISA Operator Recall Location (No Answer) |
| 05-08-06 | DISA No Answer Recall Timer |
| 05-08-07 | DISA Transfer Timer - No digits dialed |
| 05-11-04 | DISA Access Delay Time - Night |
| 05-11-06 | DISA Transfer Count - Console busy |
| 05-11-02 | DISA Password - Optional extra passwords |
| 05-11-05 | DISA Special Digit Acceptance |
| 05-17-04 | DISA Access Delay Time - Lunchtime |
| 35-tk-04 | DISA / External Call Forward Status |
| 46-stn-04 | DISA Recall Capability (No Answer/Busy) |
| 95-tk-04 | DISA / ECF Lunchtime |

DISA SINGLE DIGIT DIALING

| IP | Item Description |
|------------|--------------------------------------|
| 05-04-07 | Intercom Single Digit Dialing Enable |
| 05-11-08 | DISA Single Digit Dialing |
| 10-grp-stn | Single Digit Dialing Assignment |
| 20-nn | Day/Night Service Schedule |

Night Service

| IP | Item Description |
|-----------|--|
| 02 | Night Ringing And Ringing Line Preference Assignment |
| 09-spd-nn | System Speed Dial 101~109 for ECF |
| 20-nn | Day/Night Service Schedule |
| 35-tk-03 | External Call Forward Location (Speed Dial Assignment) |
| 35-tk-04 | DISA/ECF, Day/Night Status |

Group Assignments

Console Assignment

04-grp-stn Assign Stations to be consoles by group

Flexible Key Group Assignments

07-grp-key Key Group Layout Assignment
41-stn-02 Assign stations to Key Groups
41-stn-03 Assign Shift key group to stations

Dial '9/0' Trunk Groups

36-grp-trk Assign trunks to groups for Dial '9/0'
41-stn-04 Assign stations a Dial '9' group

Dial '87' Trunk Groups

38-grp-trk Assign trunks to groups for Dial '87'
46-stn-01 Assign stations a Dial '87' group

Group Assignment for stations (Page Zone, Pick up, Single digit)

41-stn-01 Assign stations to station groups

Call Control

Toll Restriction

| IP | Item Description |
|------------|--|
| 05-05-03 | Set a portion of system speed dial for no restriction (Hundreds) |
| 05-05-04 | Set a portion of system speed dial for no restriction (Tens) |
| 05-03-05 | Toll Access Code (Usually a '0') for SMDR only |
| 18-pln-trk | Assigning Toll Class by Toll Plan/Trunk used |
| 41-stn-05 | Station Day Toll Plan Assignment |
| 41-stn-06 | Station Night Toll Plan Assignment |
| 51~59 | Allowed (Exception) Tables for Toll classes 1~9 |
| 59 | Common Permitted Code |
| 61~66 | Restrict (Deny) Tables for Toll classes 1~6 |

Forced Account Codes

17-nn Creating Account Codes
40-stn-08 Assigning Account Codes to Stations

Call Limit

05-04-03 Call Limit Type
40-stn-03 Call Limit Duration (Class of Service - per station)

Passwords

| IP | Value | Item Description |
|----|-------|--|
| 13 | 01 | System Programming Password (default=none) |
| 13 | 02 | DISA Password (for using a trunk on DISA call) |
| 13 | 03 | Toll Override Password |
| 13 | 04 | Password for Monitoring over DISA (default=none) |
| 13 | 07 | VMU Password |
| 13 | 09 | LCR Password |

Station Lock/Unlock

40-stn-07 Station Lock/Unlock Status

Busy out a trunk

37-tk-x Taking a trunk out of service

Intercom Dialing restrictions

45-stn-01 Restrict station to station intercom dialing

System Clock

Date and Time Setup

05-04-04 12/24 hour time format
11- Set system time
20-nn Day/Night schedule Definition

System Alarm

12-nn System Alarm Clock
44-stn-01 Stations to include (notify) in system alarms

Wake Up calls

05-05-01 Wake up signalling type

Station Numbering

05-03-06 Digit length selection (2, 3, or 4 digits)
43-port-01 Station number (extension) Assignment

Single Line Telephone

| IP | Item Description |
|-----------|--|
| 05-02-01 | Dial Tone Timeout |
| 05-02-02 | Interdigit Timeout |
| 05-02-04 | Hook switch Disconnect Timer |
| 05-02-06 | Minimum Flash Timer (used to recognize a hook switch flash for hold) |
| 05-04-08 | Message Waiting Status Setup |
| 05-06-07 | Single Line Telephone Hold Procedure |
| 05-07-02 | Toll fraud Protection (Calling Proof) |
| 05-08-03 | SLT Busy Remind Tone Timer |
| 05-08-05 | SLT Feature Programming Access Code |
| 45-stn-02 | Setting Single line type (VM port, Dual Port) |

Miscellaneous

Monitor

40-stn-02 Station Monitor Level

Paging

40-stn-05 Station Paging Access
40-stn-06 Receive Page Over Speaker
41-stn-01 Station Page Group

Call Forward No Answer Transfer Time

05-01-08 Call Forward-No Answer Timer

Hot Line

09-spd-nn System Speed Dial number for Hot Line use
47-stn-xx Hot Line destination for a station

Optional Services**Door phone & Door switch**

03-01-ext Stations to ring upon Door Phone Activation
05-12-04 Door Relay Activation Timer
06-01-fn Relay Assignment (for Door Phone latch release)

Voice Mail Integration

| IP | Item Description |
|-----------|--|
| 01 | Day Ringing Assignment |
| 02 | Night Ringing Assignment |
| 05-02-04 | Single Line Telephone Release (Disconnect) Timer |
| 05-02-06 | Single Line Telephone Minimum Flash Timer |
| 05-06-07 | Single Line Telephone Hold Procedure |
| 05-10 | Voice Mail Leading Digits |
| 05-12-05 | Voice Mail Integration Type |

ACD-1 operation

ACD-1 operation is best described as Operator Overflow handling for incoming calls. It operates on any inbound ringing trunk except for Direct In dial calls ringing their assigned station. It does not allow the caller to dial a destination. It is purely a Call Queuing system. If the customer requires callers to be able to dial a destination then the system should be set for Auto Attendant (DISA) operation rather than ACD-1.

ACD-1 is standard on the G1E and operates on the built in voice messages. The system has 4 channels available to handle incoming calls simultaneously. However because a 4 channel VSC releases the call after playing the message, a 4 channel VSC can handle many more trunks in ACD-1 operation.

ACD-1 when enabled answers incoming calls after a programmable time interval, plays a message to the caller and place the call on hold in a queue for the ring assigned stations. A second message can be programmed to play after a programmed time interval to apologize for the continuing delay. This message will repeat at the time interval specified until the caller is answered. A third message can be programmed to operate at a minimum 5 minute time to announce that there is no one available to take the call and disconnect the caller.

A trunk which is answered by ACD-1 will always indicate that it is ringing on the trunk DSS key and by an audible ring signal even after being answered by ACD-1. If the assigned ringing stations become free or are free and pick up the phone while the call is being queued then they will automatically answer the call following normal Ring Line Preference rules. However, if the caller is being played a Voice message then they will not be automatically connected until the message is complete and they are returned to the ringing queue. As the DSS button is still indicating incoming ring the operator can manually press the DSS button of the trunk and pull the call back from the Voice message and answer this way.

ACD-1 can be configured to answer in 2 ways.

The first option is when ALL the assigned ringing stations are busy (or DND) after the programmed time interval. The second option is to always answer at the programmed time regardless of the status of these stations.

When the second option is used it is recommended that the ACD-1 be enabled only for day time operation and that the system be set to Automatic day / night switching to prevent callers being answered after hours when no one is available.

Clear down of unanswered calls.

Once a call has been answered by the system then there is an issue of what happens if the caller hangs up before being answered. By default the call will continue to ring until answered by an operator or being cut off by the Timer in mode 05-09-08. This quickly becomes annoying to operators if they are continually answering calls and hearing busy tone. The VMU card has Busy Tone Detection capability and in most cases enabling this will clear down calls once busy tone is heard.

It is also possible to enable either Polarity reversal for incoming calls or Clear Forward depending on the country. These are features that are provide by the Central Office and will need to be enabled by them.

Related programming modes

| IP | Item Description |
|----------|--|
| 05-06-04 | Polarity Reversal for Incoming calls (Australia) |
| 05-09-03 | Clear Forward Signal detection (USA, NZ and other markets) |
| 05-09-04 | DISA Busy Tone Detect |
| 05-09-06 | ACD-1 Answer Delay time |
| 05-09-07 | ACD-1 Message 2 Delay time |
| 05-09-07 | ACD-1 Disconnect Message Delay Time |
| 29-tk-02 | ACD enable |

DISA and Auto Attendant operation

DISA operation includes the Auto Attendant for handling Caller selected routing for incoming calls and the option to dial through the system utilizing system trunks to dial another destination.. It operates on any inbound ringing trunk except for Direct In dial calls ringing their assigned station. If the customer requires callers to be able to dial a destination then the system should be set for Auto Attendant (DISA) operation.

Incoming callers can be given the option of dialing a full extension number, a menu of single digits to a multiple number of destinations or selecting an outside trunk, entering a password and dialing back into the public network to another destination.

When DISA is enabled, it answers incoming calls after a programmable time interval, plays a message to the caller giving them the dialing options and waits a period of time to allow dialing to take place. If nothing is dialed or an invalid number is dialed it will play the invalid number dialed message and then normally transfer the call to the operator(s). It is also possible to program the system to disconnect these calls.

Several pre-recorded messages are programmed for DISA operation to play after a programmed time interval to indicate the progress of the call including Console Busy, extension busy, extension no answer even a call cut off message if absolutely necessary. Messages will repeat at the time intervals specified until the caller is answered if full supervision is available when the caller hangs up.

A trunk which is answered by DISA will indicate solid red on the trunk DSS key after being answered by DISA. Until answered it will ring on ring assigned stations and can be answered by these stations until DISA answers.

Clear down of unanswered calls.

Once a call has been answered by the system then there is an issue of what happens if the caller hangs up before being answered. By default the call will continue to ring until answered by an operator or being cut off by the Timer in mode 05-09-08. This quickly becomes annoying to operators if they are continually answering calls and hearing busy tone. The VMU card has Busy Tone Detection capability and in most cases enabling this will clear down calls once busy tone is heard.

It is also possible to enable either Polarity reversal for incoming calls or Clear Forward depending on the country. These are features that are provide by the Central Office and will need to be enabled by them.

Related programming modes

- 5.1.4 DISA answer delay time – Day
- 5.11.4 DISA answer delay time – Night
- 5.6.4 Polarity Reversal for Incoming calls (Australia)
- 05-06-06 Unsupervised conference and ECF setting.
- 05-07-04 DISA transfer to console – no dialing.
- 05-08-06 DISA Transfer time – Busy/No Answer
- 5.8.7 DISA Transfer time no dialing
- 5.9.3 Clear Forward Signal detection (USA, NZ and other markets)
- 5.9.4 DISA busy tone detect
- 5.11.4 DISA Special function access
- 05-11-06 DISA retry times
- 5.11.8 DISA Single digit dialing enable
- 5.15.1 Extended VMU service
- 5.16.3 DISA Single Digit Dialing level
- 5.16.4 VMU Language service
- 05-17-04 DISA Access delay time – lunch
- 10-gp DISA Single digit destination
- 13-02 DISA password setting
- 35-tk-04 DISA enable
- 46-st-04 DISA action for unsuccessful call for each station

Recording DISA Messages

A Console must be used to record messages. In default the Console station is 111. From the console dial 8901 and follow the voice prompts to record Company Greeting messages. Full instructions for recording greetings are given by the Voice prompts. If the VMC card is installed then dial 8902 to record DISA messages. The VMU also contains default greeting messages for each mode but that message says only "x greeting message not recorded"

All prompts except the initial greeting message are already recorded on the MBU. The user should only need to program Day, Night, Lunch Time, Holiday and extended greetings as required.

Programming Standard DISA

This assumes that you have followed the previous instructions to record DISA messages.

Set the timers in Mode 05-01-04 and 05-11-04, 05-17-04 to select answer time for Day, Night and Lunch

Set in mode 05-07-04 whether unsuccessful or no dial calls will revert to the operator or be disconnected.

Set in Mode 05-08-06 the time interval between retries when the call is attempting to connect to a station. It is important that the DISA timer is set to longer than the Call forward no Answer timer or DISA calls may not go to the VM when required.

Set in Mode 05-08-07 the time interval that is left for the customer to complete dialing after hearing the greeting message.

If Polarity reversal or Clear Forward are used then set the appropriate mode to suit your network. It is preferable to use DISA busy tone detect to clear down calls as no input is required from the central office.

If callers are to access an outside line after DISA answers then this must be enabled in Mode 05-11-05. Calls through the system using this feature will be controlled by mode 05-06-06 which is a timer to make certain that calls do clear down when 2 trunks are tied together. When a timer is set, the parties to the call will receive a tone just prior to the time elapsing and can send a DTMF digit to the system to extend the call for another time period before again alerting the parties to the next timeout period.

Set Mode 05-11-06 to the number of retries that an unanswered call or a call to a busy station will make before disconnecting the call. If supervision is available to clear down when the caller hangs up or DISA Busy tone detect is used then this should be set to 9 which means that it will retry until the caller hangs up.

Mode 05-15-01 sets the date stamp setup whether it is US order or English order.

Mode 05-16-03/04 Enables / Disables dual language service and selects which digit to dial to access the second language service after DISA answer.

If Callers are allowed to access an outside line then a password must be set in Mode 13-02

DISA is enabled on a trunk by trunk basis in Mode 35-tk-04. The options are as follows:

| IP | Day Time | Night Time |
|----|-------------|--------------|
| 0 | Disable | Disable |
| 1 | Disable | DISA Enable |
| 2 | DISA Enable | Disable |
| 3 | DISA Enable | NDISA Enable |
| 4 | Disable | ECF Enable |
| 5 | ECF Enable | Disable |
| 6 | ECF Enable | ECF Enable |
| 7 | DISA Enable | ECF Enable |
| 8 | ECF Enable | DISA Enable |

Programming Single Digit DISA

Single Digit DISA uses all the same programming modes plus the following

Set mode 05-11-08 to enable single digit DISA and select which time periods single Digit DISA will be activated (Day/Night etc)

Mode 10 selects the destination of each single digit dialed by the caller. The digits 1 to 5 are available for use. To call any extension in the system direct when single digit is enabled the caller should first dial 6 followed by the full extension number.

Example

| |
|--|
| 10-gp-IP S.D.I. 511 513 522 600 000 |
|--|

In the above example an incoming DISA caller who dials 1 will call station 511, dialing 2 will call station 513, 3 will call Station 522. 600 has been assigned as a Hunt Group Pilot number so a DISA caller dialing 4 will call the Station hunting group which has 600 as it's pilot Number. Dialing 5 will allow the caller to dial the full extension number of any extension, which starts with 5, e.g. 555. Pilot numbers are set in Mode 67 and Hunt groups are programmed in Mode 68 and 69.

Installing ACP's

The ACP is similar in appearance to a normal door phone with a numeric keypad, 2 extra keys (Call and PRG) and a 4 character LED display. The ACP has a built in relay, a sensor output and a case alarm for security.

The ACP phone can be connected to any Digital port up to the maximum number of ports available minus One. It is recommended that one Digital phone be provide for programming so that changes can be made and registration of cards done easily on site.

It is not weatherproof and must be mounted in a sheltered location. For better weather resistance without the security features there is also available a digital door phone with a metallic case, a single button and no LED display.

About security

The ACP has a built in relay which can be used to unlock the associated door. However, where security is an issue the system can be programmed to use the relay on the optional MSU card. Because the ACP can be vandalized by unauthorized users to short out the relay contacts there is also a case alarm. It is an Opto coupler on the circuit board with a plastic moulding on the case which keeps the Opto coupler permanently open. Even a small movement of the case compared to the mounting bracket will send an alarm to the system.

How can I use an ACP?

Simple door phone with door unlock from internal extensions only.

A door phone with door unlocking by code from the door phone.

A door phone with unlocking by proximity card from the door phone.

A door phone with unlocking by proximity card AND/OR code from the door phone.

A wall mounted Handsfree phone with access to external lines if required and all of the unlocking and access features.

Security feature where, when the door phone is pressed the system can call an external phone number, connect the called number to the Door phone and allow the called party to unlock the door if required.

Relevant programming modes

Mode 03 Door phone Ring assignment

Mode 05-03-08 Door phone Ring frequency

This parameter allows for different ring patterns for the Door Phone and ACP

| IP \ Value | 0 | 1-8 | 9 |
|------------|-------------------|-----------------|------------------|
| 05-03-08 | Handset frequency | Frequency 1 - 8 | Background Music |

Mode 05-11-07 Door phone Ring time

The time that the Door Phone will ring assigned stations when the Door Phone button is pressed.

Mode 05-12-04 Door Relay unlock time

The time that the door relay will remain closed after the Unlock function is activated.

Mode 17 Forced Account Codes

Use as a code to allow users to unlock the door from the ACP

Mode 46-st-07 ACP/Door phone Hunt Group assignment

Selects which Hunt Group will ring when the button of this door phone is pressed. If set to a "d," the door phone will ring stations set in Mode 03

Mode 50-st-08 ACP warning Signals

Deactivates Case Open Alarm and ACP unplug Alarm

Mode 50-st-06 ACP Door Unlock relay

Selects whether the internal or the system relay will be used by the ACP/ Door phone

Mode 50-st=07 ACP Door Open Control Type

Selects whether to open the door by Code, Swipe Card or Code plus Swipe card

Mode 50-st-08 ACP Phone operation type

Selects whether the ACP phone is able to act as a normal phone.

Mode 67-68-69 Hunt Group programming for Ring assignment.

How to set up as a door phone.

The door phone can be connected to any Digital port on the system. There is an A/B jumper on the PCB to select Port 1 or Port 2. When the phone is installed, if the Call button is pushed without any programming, the user will hear an error tone. This is because the default is to ring Hunt Group number 1 and this will have no members hence the error tone.

To use the default hunt group create a Pilot number and assign members to the Hunt Group for Day and Night in mode 67(01)-68(01)-69(01) or set Mode 46-st-07=d and the Door phone will ring the stations assigned in Mode 03. If the Door phone is to unlock the door then select which relay to use in Mode 50-st-06 and wire the door mechanism to this relay. Once the relay is set up, the internal station can press 0 while talking to the door phone to open the door. Adjust the door phone ring time in Mode 05-11-07 to suit the customer and the Relay unlock time in Mode 05-12-04 to allow enough time for access through the door.

How to unlock the door from the ACP using Forced Account Codes

The ACP can be used to unlock the door to allow access by staff to a building or to a secured area of the building by using Forced Account Codes. 48 Forced Account codes can be programmed and used. When programming a FAC remember that all 8 digits must be programmed so if a code of 12343 is needed then it is programmed 1234dddd and then 1234 will work as a code. To unlock the door on the ACP press PRG (Left Control Key) 7, FAC, #

For details of the Access Control Feature using swipe Cards see the Access Control Help File. For details of the Security feature see the Security feature Help File.



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All data and specifications are subject to change without notice.