



Web Administration Manual

Please read this manual carefully before operating System.
Retain it for future reference.

iPECS is an Ericsson-LG Brand



Revision History

| ISSUE | DATE | DESCRIPTION OF CHANGES |
|-------|----------|--|
| 1. 0 | 2009. 12 | Initial Release |
| 1.5A | 2010. 06 | Update for iPECS-MG S/W V1.5 Table 1.5.2.4.1-1 Feature Numbering Codes updated Section 1.5.2.4.4 ACD Group Number added PGM 120 Gain Table Index added PGM 161 Gain Table Index added PGM 165 ISDN Progress indicator option added PGM 180 ARS service option added Section 1.5.6.10 ACD Group Assignment added Section 1.5.6.11 ACD Group Attributes added Section 1.5.6.12 ACD Group Announcement added Table 1.5.10.1-1 ISDN Board Attribute updated Section 1.5.10.4 Reset Board added |
| 1.5B | 2010. 09 | Update for iPECS-MG S/W V1.5 (General edits for errata) Section 1.4 Web Admin & Maintenance Overview updated Table 1.5.1.7-1 System IP Address Plan updated Section 1.5.6.13 ACD Agent State & Priority added Section 1.5.7.3 System Password updated Section 1.5.7.10 System Date, Time updated Section 1.5.7.19 Web Access Authorization updated Section 1.5.16.1 Zone Attributes updated Section 1.5.16.4 Station Zone Attribute updated Table 1.5.18.1-1 DECT Registration updated Section 1.7.2 SMDR updated Section 1.8.10 ACD Group Management added Section 1.8.11 ACD Group Call Traffic added |
| 1.7A | 2010. 03 | Update for iPECS-MG S/W V1.7 Section 1.5.4.2 Station Directory Number Attributes Section 1.5.4.7 VMIB Attribute (PGM 145,147) updated Table 1.5.1.1-1 1.5.4.7-1Station VMIB Attributes updated Section 1.5.5.1 Co Line Attribute Table 1.5.5.1-1 Co Line Attribute updated Section 1.5.7.18 VM COS Attribute (PGM 243) added Section 1.5.7.19 System Reroute Table (PGM 244) added Section 1.5.8.9 CCR Table (PGM 260) updated Table 1.5.8.9-1 CCR TABLE ATTRIBUTES updated Section 1.5.8.15 ICLID Exception Table (PGM 267) added Section 1.5.20 Hotel Data Section 1.5.20.1 Hotel General Info Table 1.5.20.1-1 Hotel General Info (PGM500) updated Table 1.5.20.1-2 LCD Language Selection updated Section 1.5.20.2 Hotel Additional Info Table 1.5.20.2-1 Hotel Additional Info (PGM501) updated Section 1.5.20.3 Hotel Station Info Table 1.5.20.3-1 Hotel Station Info (PGM502) updated Section 1.5.20.4 Rate For Room Class Section 1.5.20.5 Call Charge Rate Section 1.5.20.6 MiniBar List Section 1.5.20.7 Tax Rate For Bill Section 1.5.20.8 Fee For Part Time |

| | | |
|-------|----------|--|
| | | Section 1.5.20.9 Dial One Digit Service Table 1.5.20.9-1 Dial One Digit Service (PGM508) updated Section 1.5.20.10 Check In/Out Section 1.5.20.11 Display Room Change Section 1.5.20.12 Bar Cost Change |
| v 2.0 | 2011. 11 | Update for iPECS-MG S/W V2.0 Section 1.5.1.2 Slot Assignment – PGM Code 101 updated Section 1.5.1.6 DTIM/SLTM Registration – PGM Code 107 updated Table 1.5.2.4-1 Feature Numbering Codes updated Table 1.5.3.2-1 Station Port Attributes updated Table 1.5.4.2-1 Station Directory Number Attributes updated Section 1.5.4.3 Station Private CO Group Attributes - PGM Code 136 added Section 1.5.4.6 Preset Call Forward – PGM Code 142 updated Table 1.5.4.8-1 Station VMIB Attributes updated Table 1.5.5.1-1 CO LINE ATTRIBUTES updated Table 1.5.5.2-1 Incoming Co Line Attributes updated Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE updated Section 1.5.5.14 CO MATM Attribute - PGM Code 182 added Table 1.5.7.1-1 System Timers updated Table 1.5.7.2-1 System Attributes updated Table 1.5.7.9-1 SMDR Attributes updated Table 1.5.7.11-1 Button LED Flash Rate / Color Table updated Table 1.5.7.12-1 PPP Attributes updated Table 1.5.7.14-1 Intercom Busy One-Digit Attributes updated Table 1.5.7.18-1 VM COS Attribute updated Section 1.5.8.1 Toll Exception Tables – PGM Code 250 updated Section 1.5.8.19 Virtual CLI Table - PGM Code 750 added Section 1.5.8.20 Virtual Subscriber Table - PGM Code 751 added Table 1.5.9.5-1 Tenant Attributes updated Section 1.5.9.7 Call Restriction – PGM Codes 284–285 updated Section 1.5.9.8 Local Call Prefix Tables – PGM Code 286 updated Section 1.5.9.9 Long Distance Call Prefix Tables – PGM Code 287 updated Section 1.5.9.10 International Call Prefix Tables – PGM Code 288 updated Section 1.5.9.11 Mobile Call Prefix Tables - PGM Code 289 added Section 1.5.9.12 Tone Tables – PGM Code 290 updated |
| 2.1 | 2012. 12 | Changed CI to Ericsson-LG |
| 2.2 | 2013. 12 | Update for iPECS S/W V2.5 & Changed CI to Ericsson-LG Enterprise |
| | | |

Copyright© 2009 Ericsson-LG Enterprise Co., Ltd. All Rights Reserved

This material is copyrighted by Ericsson-LG Enterprise Co., Ltd. (Ericsson-LG Enterprise). Any unauthorized reproductions, use or disclosure of this material, or any part thereof, is strictly prohibited and is a violation of Copyright Laws. Ericsson-LG Enterprise reserves the right to make changes in specifications at any time without notice. The information furnished by Ericsson-LG Enterprise in this material is believed to be accurate and reliable, but is not warranted to be true in all cases.

iPECS is trademarks of Ericsson-LG Enterprise Co., Ltd.

All other brand and product names are trademarks or registered trademarks of their respective companies.

Table of Contents

| | |
|---|-----------|
| 1. Web Service | 1 |
| 1.1 General..... | 1 |
| 1.1.1 PC/Browser | 1 |
| 1.1.2 Environment for LAN connection | 1 |
| 1.1.3 Web Browser setting | 1 |
| 1.2 Web Home Page | 3 |
| 1.2.1 Browser Access..... | 3 |
| 1.2.2 User Guide | 4 |
| 1.2.3 Station Program | 5 |
| 1.2.4 Web Admin & Maintenance..... | 5 |
| 1.2.5 Help Menu | 6 |
| 1.2.5.1 Numbering Plan Preview (Web Admin) | 7 |
| 1.2.5.2 Prompt List Overview (Web Admin)..... | 8 |
| 1.3 Web Admin Data Modification & Access | 9 |
| 1.3.1 Web Admin Data Modification..... | 9 |
| 1.3.2 Maintenance & Admin ID & Password | 9 |
| 1.3.3 Password Encryption | 10 |
| 1.4 Web Admin & Maintenance Overview | 11 |
| 1.5 iPECS Web Administration | 12 |
| 1.5.1 Pre-Programmed Data | 13 |
| 1.5.1.1 Location Program – PGM Code 100..... | 14 |
| 1.5.1.2 Slot Assignment – PGM Code 101 | 15 |
| 1.5.1.3 Logical Slot Assignment | 16 |
| 1.5.1.4 DECT/IP Phone/SIP Phone Max. Port – PGM Code 104..... | 18 |
| 1.5.1.5 IP-Phone Registration – PGM Code 106..... | 19 |
| 1.5.1.6 DTIM/SLTM Registration – PGM Code 107 | 20 |
| 1.5.1.7 IP Address Plan – PGM Codes 108–109 | 21 |
| 1.5.2 Numbering Plan..... | 23 |
| 1.5.2.1 Numbering Plan Type – PGM Code 110 | 24 |
| 1.5.2.2 System Numbering Plan – PGM Code 111 | 25 |
| 1.5.2.3 Flexible Station Numbering Plan – PGM Code 112..... | 26 |
| 1.5.2.4 Flexible Numbering Plan – PGM Codes 113..... | 27 |
| 1.5.2.5 CO Group Access Code - PGM code 114..... | 32 |
| 1.5.2.6 Station Group Number - PGM code 115..... | 33 |
| 1.5.2.7 ACD Group Number - PGM code 118..... | 34 |
| 1.5.3 Station Port Data | 35 |
| 1.5.3.1 Station Type – PGM Code 120..... | 36 |
| 1.5.3.2 Station Port Attributes – PGM Codes 121–124 | 37 |
| 1.5.3.3 Flexible Button Assignment – PGM Code 126 | 42 |
| 1.5.3.4 CTI IP Address Assignment..... | 44 |
| 1.5.4 Station Number Data..... | 45 |

| | |
|---|-----|
| 1.5.4.1 Station DN (Directory Number) Assignment – PGM Code 130 | 46 |
| 1.5.4.2 Station Directory Number Attributes – PGM Codes 131–135..... | 48 |
| 1.5.4.3 Station Private CO Group Attributes – PGM Code 136 | 54 |
| 1.5.4.4 Station COS Assignment – PGM Code 137 | 55 |
| 1.5.4.5 Station Auto Dial Attribute – PGM Code 138..... | 56 |
| 1.5.4.6 Preset Call Forward – PGM Code 142 | 57 |
| 1.5.4.7 Call Forward – PGM Code 143..... | 58 |
| 1.5.4.8 VMIB Attribute – PGM Code 145, 147 | 59 |
| 1.5.4.9 Mobile Phone Attribute – PGM Code 146..... | 62 |
| 1.5.4.10 CO/IP Group Access – PGM Code 150 | 63 |
| 1.5.4.11 Internal Page Group Access – PGM Code 151 | 64 |
| 1.5.4.12 Command Conference Group Access – PGM Code 152 | 65 |
| 1.5.5 CO Line Data..... | 66 |
| 1.5.5.1 CO Line Attribute – PGM Codes 160–163..... | 67 |
| 1.5.5.2 Incoming CO Attributes – PGM Codes 165–166..... | 72 |
| 1.5.5.3 CO Ring Assignment – PGM Code 167 | 75 |
| 1.5.5.4 Incoming CO Normal/DISA Attributes – PGM Code 168..... | 77 |
| 1.5.5.5 CO Incoming Alternate Destination – PGM Code 169..... | 78 |
| 1.5.5.6 CO Outgoing Attribute – PGM Codes 170–171..... | 80 |
| 1.5.5.7 CO Outgoing Alternate Destination – PGM Code 173..... | 84 |
| 1.5.5.8 CO Outgoing Inter Digit Timer – PGM Code 174 | 86 |
| 1.5.5.9 CO DTMF Sending Delay Timer – PGM Code 175..... | 87 |
| 1.5.5.10 CO COS Assignment – PGM Code 177..... | 88 |
| 1.5.5.11 CO to CO Call Attributes – PGM Code 179..... | 89 |
| 1.5.5.12 CO Group Access Code Attribute – PGM Code 180..... | 91 |
| 1.5.5.13 Alternate Ring Assignment – PGM Code 181 | 93 |
| 1.5.5.14 CO MATM Attribute – PGM Code 182 | 94 |
| 1.5.6 Station Group Data..... | 95 |
| 1.5.6.1 Station Group Assignment – PGM Code 200..... | 96 |
| 1.5.6.2 Station Group Attributes – PGM Codes 201–202..... | 98 |
| 1.5.6.3 Voice Mail Group Attributes – PGM Code 203 | 102 |
| 1.5.6.4 Pick Up Group – PGM Code 204 | 103 |
| 1.5.6.5 Page Group – PGM Code 205 | 104 |
| 1.5.6.6 Command Conference Group – PGM Code 206..... | 105 |
| 1.5.6.7 PTT Group – PGM Code 208 | 107 |
| 1.5.6.8 Interphone Group – PGM Code 209..... | 108 |
| 1.5.6.9 Pilot Hunt Group – PGM Codes 210–211..... | 109 |
| 1.5.6.10 ACD Group Assignment – PGM Code 212 | 111 |
| 1.5.6.11 ACD Group Attributes – PGM Codes 213–214 | 113 |
| 1.5.6.12 ACD Group Announcement – PGM Code 215..... | 117 |
| 1.5.6.13 ACD Agent State & Priority..... | 119 |
| 1.5.7 System Data..... | 120 |
| 1.5.7.1 System Timers I to III – PGM Codes 220–222 | 121 |
| 1.5.7.2 System Attributes – PGM Code 223..... | 124 |
| 1.5.7.3 System Authorization Code – PGM Code 225 | 126 |
| 1.5.7.4 System Password – PGM Code 226 | 128 |
| 1.5.7.5 Alarm Attributes – PGM Code 227 | 130 |
| 1.5.7.6 External Control Contacts – PGM Code 228 | 131 |
| 1.5.7.7 Music Sources – PGM Code 229 | 132 |
| 1.5.7.8 RS-232 Port Settings – PGM Code 230 | 134 |
| 1.5.7.9 Serial Port Function Selections – PGM Code 231 | 135 |
| 1.5.7.10 SMDR Attributes – PGM Code 232, 238 | 137 |
| 1.5.7.11 System Date, Time – PGM Code 233 | 141 |

| | |
|--|-----|
| 1.5.7.12 Button LED Flash Rate – PGM Code 234 | 142 |
| 1.5.7.13 PPP Attributes – PGM Code 235..... | 146 |
| 1.5.7.14 Mobile Attributes – PGM Code 236 | 147 |
| 1.5.7.15 Intercom Busy One-Digit Attributes – PGM Code 237..... | 148 |
| 1.5.7.16 Dummy Dial-Tone Table – PGM Code 240..... | 149 |
| 1.5.7.17 Executive/Secretary Assign – PGM Code 241 | 150 |
| 1.5.7.18 Executive-Executive Access – PGM Code 242..... | 152 |
| 1.5.7.19 VM COS Attribute – PGM Code 243 | 153 |
| 1.5.7.20 System Reroute Table – PGM Code 244 | 154 |
| 1.5.7.21 PPTP Attribute | 156 |
| 1.5.7.22 Web Access Authorization..... | 158 |
| 1.5.8 Table Data..... | 159 |
| 1.5.8.1 Toll Exception Tables – PGM Code 250..... | 160 |
| 1.5.8.2 Digit Conversion Tables – PGM Codes 251–252 | 161 |
| 1.5.8.3 System Time Tables – PGM Codes 253–254 | 162 |
| 1.5.8.4 LCR Time Table – PGM Code 255..... | 163 |
| 1.5.8.5 Holiday Time Table – PGM Code 256..... | 164 |
| 1.5.8.6 System Speed Table – PGM Code 257 | 165 |
| 1.5.8.7 Emergency Code Table – PGM Code 258 | 166 |
| 1.5.8.8 VMIB Announcement Table – PGM Code 259..... | 167 |
| 1.5.8.9 Customer Call Routing Table – PGM Code 260..... | 168 |
| 1.5.8.10 Authorization Code Table | 169 |
| 1.5.8.11 ICLID Route Table – PGM Code 262 | 170 |
| 1.5.8.12 CLI Conversion Table – PGM Code 263 | 171 |
| 1.5.8.13 Tone Frequency/Cadence Table – PGM Code 264 | 172 |
| 1.5.8.14 Ring Table – PGM Code 265..... | 173 |
| 1.5.8.15 Ring Frequency/Cadence Table – PGM Code 266 | 175 |
| 1.5.8.16 ICLID Exception Table – PGM Code 267 | 176 |
| 1.5.8.17 R2 Signal Group Table – PGM Code 268 | 177 |
| 1.5.8.18 Voice Mail Dialing Table – PGM Code 269 | 178 |
| 1.5.8.19 Virtual CLI Table – PGM Code 750 | 179 |
| 1.5.8.20 Virtual Subscriber Table – PGM Code 751..... | 180 |
| 1.5.9 Tenant Data..... | 182 |
| 1.5.9.1 Attendant Group Assignment – PGM Code 270..... | 183 |
| 1.5.9.2 Attendant Group Attributes – PGM Codes 271–272..... | 184 |
| 1.5.9.3 Night Attendant Group Assignment – PGM Code 275 | 188 |
| 1.5.9.4 Night Attendant Group Attributes – PGM Codes 276–277 | 189 |
| 1.5.9.5 Tenant Attributes – PGM Code 280–281..... | 193 |
| 1.5.9.6 Tenant Group Access – PGM Code 283 | 196 |
| 1.5.9.7 Call Restriction – PGM Codes 284–285 | 197 |
| 1.5.9.8 Local Call Prefix Tables – PGM Code 286 | 200 |
| 1.5.9.9 Long Distance Call Prefix Tables – PGM Code 287..... | 201 |
| 1.5.9.10 International Call Prefix Tables – PGM Code 288 | 202 |
| 1.5.9.11 Mobile Call Prefix Tables – PGM Code 289 | 203 |
| 1.5.9.12 Tone Tables – PGM Code 290..... | 204 |
| 1.5.9.13 Digit Map Option Tables – PGM Code 291 | 207 |
| 1.5.9.14 Digit Map Digit Tables – PGM Code 292..... | 208 |
| 1.5.10 Board Data | 209 |
| 1.5.10.1 ISDN Board Attribute – PGM Code 300 | 210 |
| 1.5.10.2 ISDN Board Clock Priority – PGM Code 301..... | 212 |
| 1.5.10.3 VOIB/VMIB Board Attribute – PGM Code 305..... | 213 |
| 1.5.10.4 Reset Board – PGM Code 310..... | 214 |
| 1.5.11 Networking Data..... | 215 |

| | |
|---|-----|
| 1.5.11.1 Net Basic Attribute – PGM Code 320 | 216 |
| 1.5.11.2 Net Numbering Plan Table – PGM Code 321 | 217 |
| 1.5.12 T-Net Data | 218 |
| 1.5.12.1 T-Net Attribute – PGM Code 330..... | 219 |
| 1.5.12.2 CM Attribute – PGM Code 331 | 220 |
| 1.5.12.3 FoPSTN Attribute – PGM Code 333..... | 221 |
| 1.5.12.4 T-Net Board Attribute – PGM Code 344 | 222 |
| 1.5.12.5 IP-Phone T-Net Enable – PGM Code 335..... | 223 |
| 1.5.13 H.323 Data | 224 |
| 1.5.13.1 H.323 Routing Attributes – PGM Code 360..... | 225 |
| 1.5.13.2 H.323 Call Setup Attribute – PGM Code 361 | 226 |
| 1.5.13.3 H.323 Incoming Attributes – PGM Code 362..... | 228 |
| 1.5.13.4 GateKeeper Attributes – PGM Code 363 | 229 |
| 1.5.13.5 H.323 Check Message Information – PGM Code 364 | 230 |
| 1.5.14 SIP CO Data..... | 231 |
| 1.5.14.1 SIP CO Basic Registration..... | 232 |
| 1.5.14.2 SIP CO Additional Registration..... | 233 |
| 1.5.14.3 SIP CO Codec | 235 |
| 1.5.14.4 SIP CO User ID Table | 236 |
| 1.5.14.5 SIP CO Allowed Address..... | 237 |
| 1.5.15 SIP Station Data..... | 238 |
| 1.5.15.1 SIP Station Basic Registration..... | 239 |
| 1.5.15.2 SIP Station Additional Registration..... | 240 |
| 1.5.15.3 SIP Station Service..... | 241 |
| 1.5.16 Zone Data..... | 242 |
| 1.5.16.1 Zone Attributes | 243 |
| 1.5.16.2 Zone RTP Relay Group | 244 |
| 1.5.16.3 Inter-Zone Attribute..... | 245 |
| 1.5.16.4 Station Zone Attribute | 246 |
| 1.5.17 SNMP Data | 247 |
| 1.5.18 DECT Data | 249 |
| 1.5.18.1 DECT Registration..... | 250 |
| 1.5.18.2 DECT Attributes – PGM Code 491 | 255 |
| 1.5.19 Green Mode | 256 |
| 1.5.19.1 Green Mode Activation | 257 |
| 1.5.19.2 Green Mode Time Setting..... | 258 |
| 1.5.20 Hotel Data | 259 |
| 1.5.20.1 Hotel General Info – PGM Code 500..... | 260 |
| 1.5.20.2 Hotel Additional Info – PGM Code 501 | 263 |
| 1.5.20.3 Hotel Station Attribute – PGM Code 502 | 265 |
| 1.5.20.4 Rate For Room Class – PGM Code 503 | 267 |
| 1.5.20.5 Call Charge Rate – PGM Code 504 | 268 |
| 1.5.20.6 Bar/MiniBar List – PGM Code 505..... | 269 |
| 1.5.20.7 Tax Rate For Bill – PGM Code 506 | 270 |
| 1.5.20.8 Fee For Part Time – PGM Code 507 | 271 |
| 1.5.20.9 Dial One digit Service – PGM Code 508 | 272 |
| 1.5.20.10 Check In/Out..... | 274 |
| 1.5.20.11 Display Room Charge | 278 |
| 1.5.20.12 Bar Cost Charge..... | 279 |
| 1.5.21 Initialization..... | 280 |
| 1.5.21.1 Initialization – PGM Code 499 | 281 |

| | |
|---|------------|
| 1.6 File Upload & Upgrade..... | 282 |
| 1.6.1 File Upload | 283 |
| 1.6.2 G/W Upgrade | 284 |
| 1.6.3 Upgrade Process View..... | 286 |
| 1.6.4 VMIB Prompt Upgrade | 287 |
| 1.6.5 AAFU System Greeting Up & Download View..... | 288 |
| 1.6.6 WTIB Base Upgrade | 290 |
| 1.6.7 iPECS-MG System Upgrade Process..... | 291 |
| 1.6.7.1 iPECS-MG Software Full Upgrade Sequence | 291 |
| 1.6.7.2 MPB Upgrade | 293 |
| 1.6.7.3 Upgrade HTML Files..... | 293 |
| 1.6.7.4 Appliances Upgrade (Gateway Board and IP Phone) | 293 |
| 1.6.7.5 Voice Prompt Upgrade | 294 |
| 1.6.7.6 WTIB Base Upgrade..... | 294 |
| 1.7 System Management | 295 |
| 1.7.1 Database | 296 |
| 1.7.1.1 Database Download | 297 |
| 1.7.1.2 Database Upload | 298 |
| 1.7.2 SMDR | 299 |
| 1.8 Station Program (User Portal)..... | 300 |
| 1.8.1 Station Port Attributes | 301 |
| 1.8.2 Station DN Attributes..... | 303 |
| 1.8.3 Call Forward | 304 |
| 1.8.3.1 Station Call Forward | 304 |
| 1.8.3.2 Preset Call Forward | 305 |
| 1.8.4 Pre-selected Message | 306 |
| 1.8.5 Station Speed Dial..... | 307 |
| 1.8.6 Flex Buttons | 308 |
| 1.8.7 Station ICLID | 310 |
| 1.8.8 Mobile Extension Attribute | 311 |
| 1.8.9 Internal SMS..... | 312 |
| 1.8.10 ACD Group Management | 313 |
| 1.8.11 ACD Group Call Traffic | 315 |
| 1.8.12 Station Logout | 316 |

1. WEB SERVICE

1.1 General

iPECS-MG incorporates a Web Server located in the MPB, which is employed by the system's Web Service. Using a Web browser to access the system Web Server and the database managed in a user-friendly environment. In addition to modifying the system database, the iPECS-MG Web Admin provides for system file upload, remote upgrade, and database download.

The iPECS-MG default database includes assignment of a private IP address to the system. This address (10.10.10.1) may be used to access the system from the LAN. However, a routable IP address must be assigned for access from a remote location refer to Section 1.2.1.

To access the iPECS-MG Web Server requires the following:

- Operating iPECS-MG system
- Known IP address assigned in MPB
- Known TCP port assigned in MPB
- iPECS-MG connected to an accessible LAN
- iPECS-MG id & password (Maint, Admin, User), where applicable

1.1.1 PC/Browser

- MS Internet Explorer (IE) 5.5 or higher version is recommended.
- Windows PC, containing at least 32MB RAM free (64MB or more RAM is recommended).
- Network Interface Card (NIC)

1.1.2 Environment for LAN connection

- IEEE 802.3, 10/100 Base T
- Static/DHCP addressing
- Firewall, requires Network Administrator to allow access.
- Remote access requires a routable public/private IP address for the iPECS-MG system Web server (must be assigned to the system prior to access).

1.1.3 Web Browser setting

Web browsers may store (cache) a copy of the iPECS Web pages in cache memory. The Web browser may use these copies to provide a "quick view". If the Web page has been altered by data entered in Station Admin or a file upgrade, the cached copy will be out-of-date and could cause unexpected system operation. To assure proper page views and data entry, the browser can be set to eliminate the use of the cached pages:

1. On your PC, run MS Internet Explore and click **[Tools]**.
2. Click **[Internet Options]**.

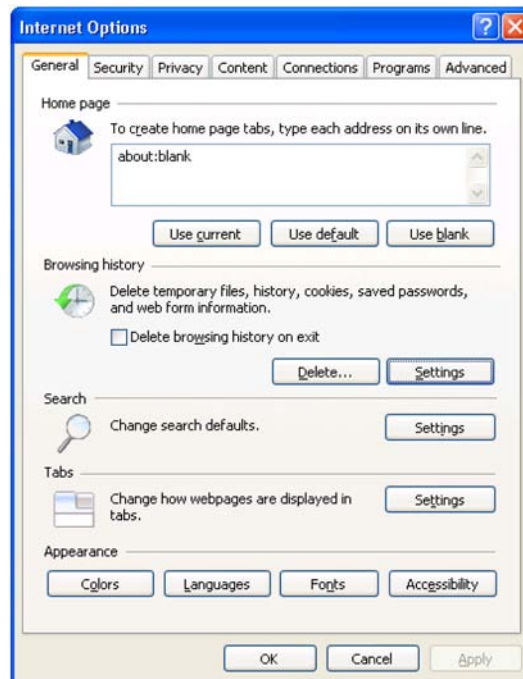


Figure 1.1.3-1 MS Internet Explore Options General Menu

3. Click **[Settings]** in Browsing history.

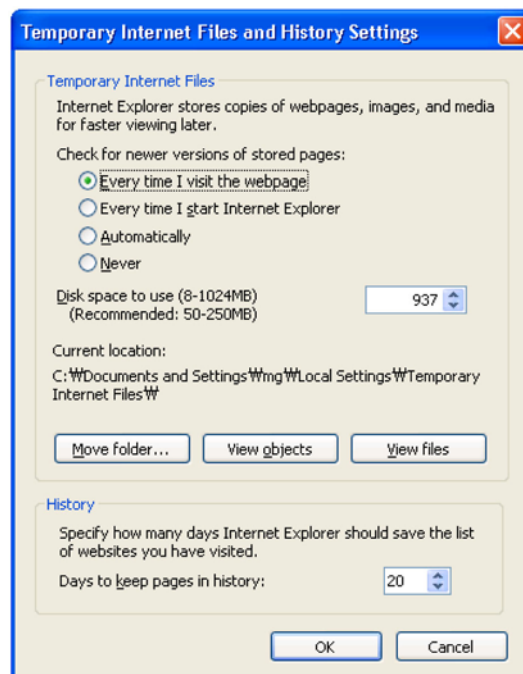


Figure 1.1.3-2 MS Internet Explore Settings Menu

4. Check "Every visit to the page" and click **[OK]**.

1.2 Web Home Page

1.2.1 Browser Access

During initialization, a default database is established; refer to Section 1.3.1 in the ***iPECS-MG Administration and Programming Manual***. While the system will function employing the defaults, there are several data entries, which **MUST** be completed to assure proper operation of the system. The system employs the Country Code to establish tone and gain plans specific to the country. In addition, the MPB IP address, sub-net mask and Router IP address must be assigned for proper external IP call operation, Remote services, and Remote Admin access.

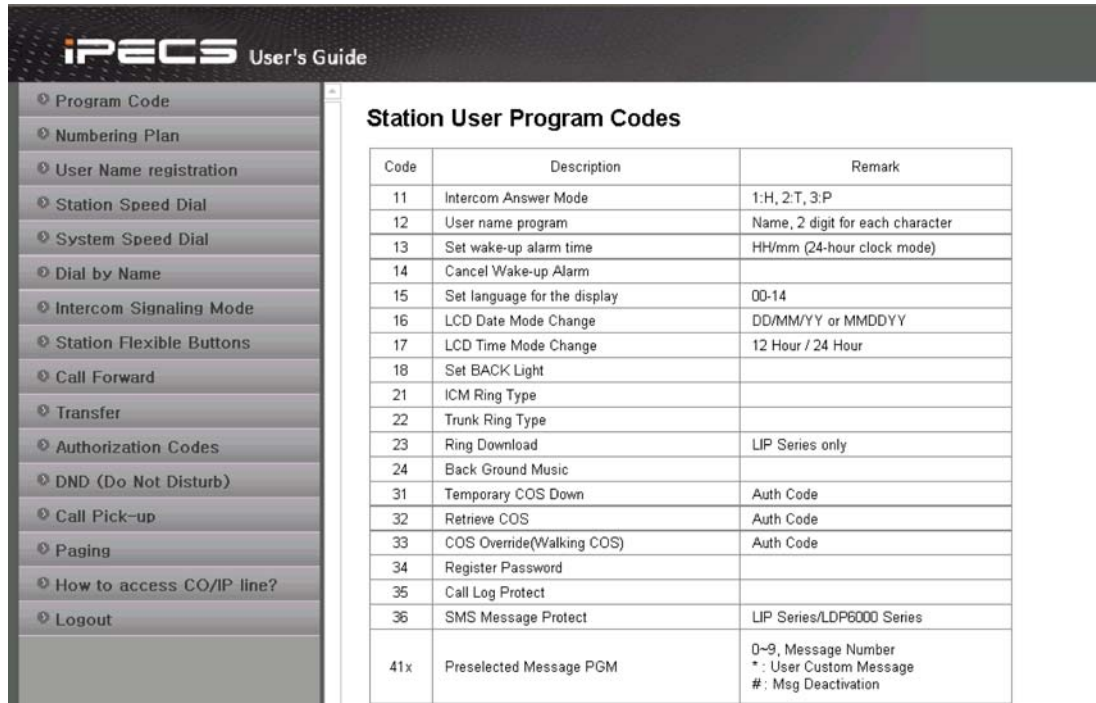
In the browser 'ADDRESS' field, enter the MPB IP address and TCP port. Select GO; the Web server returns the iPECS-MG Web Services Home page. On the Home page, one of three services may be selected, the brief ***User Guide***, ***Station Program*** or ***Admin & Programming***.



Figure 1.2.1-1 iPECS-MG Home page

1.2.2 User Guide

Selecting the User Guide will display a brief user manual. The user may select a feature from the left frame (as shown); to select a brief description of the feature, which then will be displayed in the right frame.



| Code | Description | Remark |
|------|------------------------------|--|
| 11 | Intercom Answer Mode | 1:H, 2:T, 3:P |
| 12 | User name program | Name, 2 digit for each character |
| 13 | Set wake-up alarm time | HH/mm (24-hour clock mode) |
| 14 | Cancel Wake-up Alarm | |
| 15 | Set language for the display | 00-14 |
| 16 | LCD Date Mode Change | DD/MM/YY or MMDDYY |
| 17 | LCD Time Mode Change | 12 Hour / 24 Hour |
| 18 | Set BACK Light | |
| 21 | ICM Ring Type | |
| 22 | Trunk Ring Type | |
| 23 | Ring Download | LIP Series only |
| 24 | Back Ground Music | |
| 31 | Temporary COS Down | Auth Code |
| 32 | Retrieve COS | Auth Code |
| 33 | COS Override(Walking COS) | Auth Code |
| 34 | Register Password | |
| 35 | Call Log Protect | |
| 36 | SMS Message Protect | LIP Series/LDP6000 Series |
| 41x | Preselected Message PGM | 0~9, Message Number *: User Custom Message #: Msg Deactivation |

Figure 1.2.2-1 User Guide

1.2.3 Station Program

If the Station Program item is selected from the Home page, the user receives the Station Program displays starting with the Station Program password Web page, refer to Figure 1.2.3-1. Note that if a password is not assigned for the station, the user will not be able to log in to the Station Program Web page. For detailed descriptions, refer to section 'Station Program (User Portal)'.



Figure 1.2.3-1 Station Password

1.2.4 Web Admin & Maintenance

If the Admin & Maintenance item is selected from the Home page, the Admin & Maintenance manual will display. For detailed description refer to section 1.4.

1.2.5 Help Menu

Some admin attributes has Help Menu with icon (?).

If a user selects Help menu icon, Pop-up window can be provided with the detailed explanation

The screenshot shows the iPECS-MG Web Administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar lists various configuration categories, with 'Numbering Plan' selected. The main content area displays the 'System Numbering Plan' configuration page, which includes a table for setting up numbering plans.

| Index | Prefix Code | More Digit (0-4) |
|-------|-------------|------------------|
| 1 | 1 | 3 |
| 2 | 2 | 3 |
| 3 | 3 | 3 |
| 4 | 4 | 1 |
| 5 | 5 | 2 |
| 6 | 6 | 2 |
| 7 | 7 | 0 |
| 8 | 9 | 0 |
| 9 | 0 | 0 |
| 10 | * | 1 |
| 11 | # | 1 |
| 12 | 80 | 1 |
| 13 | 81 | 1 |
| 14 | 82 | 1 |
| 15 | 83 | 1 |
| 16 | 84 | 1 |
| 17 | 85 | 1 |
| 18 | 86 | 1 |
| 19 | 87 | 1 |
| 20 | 88 | 0 |
| 21 | 89 | 1 |
| 22 | | |
| 23 | | |
| 24 | | |

Figure 1.2.5-1 Help Icon

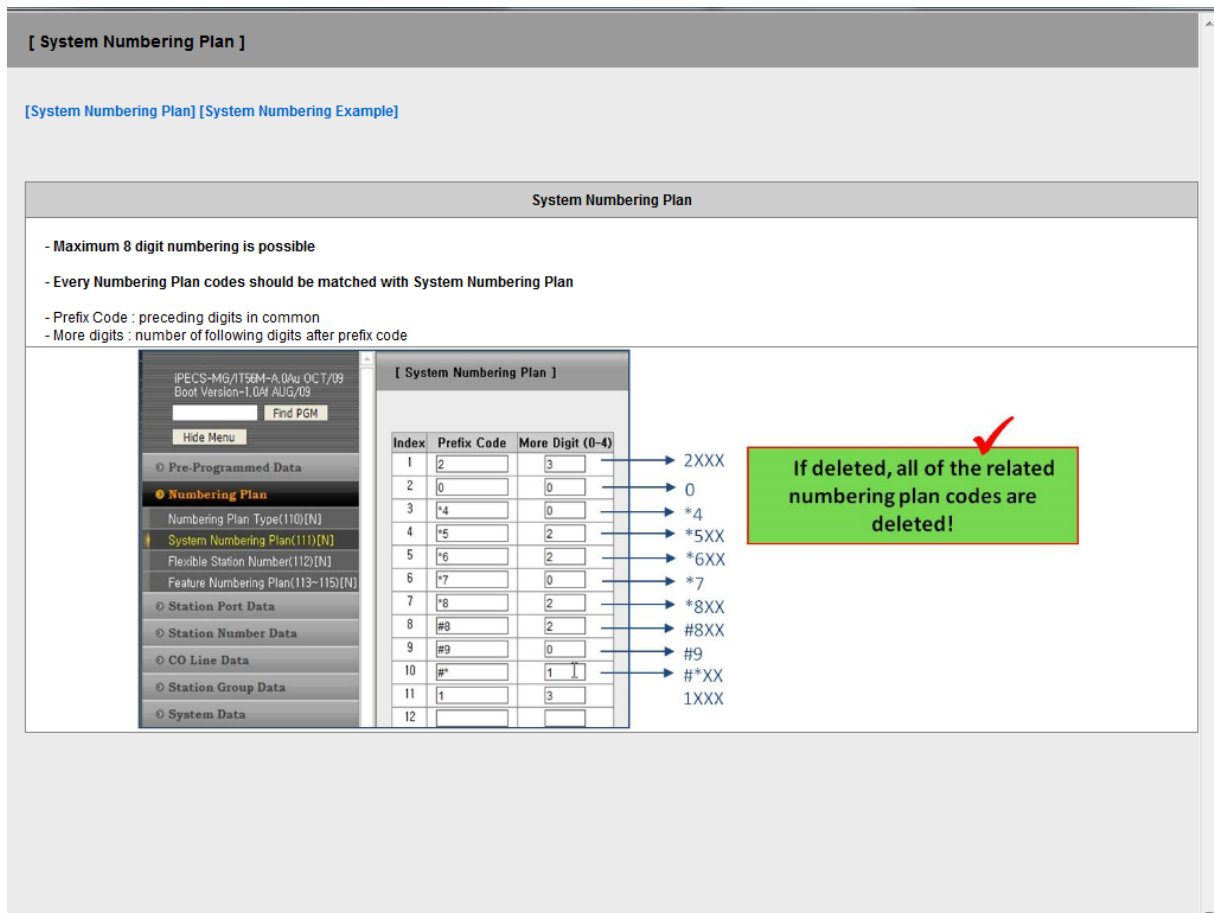


Figure 1.2.5-2 Help Menu

1.2.5.1 Numbering Plan Preview (Web Admin)

6 Types of numbering plan are provided. Before changing numbering plan type, we can see the codes of that type.

Programming Numbering Plan

1. Inumbering Plan Type Preview (PGM 110)

1.2.5.2 Prompt List Overview (Web Admin)

English (GS96W) (or Korean) Prompt List Overview is provided.

The screenshot shows the iPECS web administration interface. On the left is a sidebar with navigation links: File Upload, G/W Upgrade, Upgrade Process View, VMIB Prompt Upgrade (highlighted), AAFU SG Upload/Download, and BASE Upgrade. The main content area displays the 'VMIB Prompt Upgrade' page. It shows a message '[NO Prompt file found !!]' and a table with columns 'Select', 'VMIB Slot', and 'Prompt Index'. The 'VMIB Slot' column shows 'AAFU #1 (SLOT 0)'. The 'Prompt Index' column has radio buttons for 'First' (selected), 'Second', and 'Third'. Below the table is a section '[Select Prompt to Upgrade]' with a table header 'Select Nation Version Filename'. A link '[Cf. Prompt List Overview]' is circled in red. To the right, a browser window titled 'Prompt List Overview - Windows Internet Explorer' shows the URL 'http://192.168.123.38/prompt_list.htm'. The browser displays '[English(VT) Prompt List Overview]' and a message: '- This page shows the list of formal released prompts. If you will modify (or upload) individual prompt then it may not be valid.' Below this is a table with 10 rows of prompts.

| No. | Prompt |
|-----|---|
| 1 | |
| 2 | |
| 3 | that number is invalid |
| 4 | Time has expired |
| 5 | please try again |
| 6 | please hold while I transfer you to the attendant |
| 7 | please enter the mailbox number |
| 8 | if you want to leave a message, please press the pound(#) key |
| 9 | please record your greeting |
| 10 | enter password |

Programming S/W Upgrade

1. VMIB Prompt Upgrade

1.3 Web Admin Data Modification & Access

1.3.1 Web Admin Data Modification

Each of the system's data entry Web pages includes a frame for data display and modification.

To modify data:

1. Click in the data field; either a drop-down menu will appear for entry selection, or a cursor will appear in the field for the user to type in the data required.
2. When finished, click the **[Save]** button to send the new page to the system and including the modified data.

Some of the Web pages include blue colored text in the table headers. Selecting this text will order the table based on the column selected.

In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the *iPECS-MG Installation and Description Manual* or by selecting the **[Reset System]** button on the Initialization Web page.

1.3.2 Maintenance & Admin ID & Password

The iPECS-MG System supports a multi-level ID & password structure. The Maintenance ID & Password controls the access rights of the Admin and User level id & passwords. It is highly recommended that an ID & password be assigned. In addition, the Web password can be encrypted, refer to Section 1.3.3.

1. From the Home page, click on Admin & Maintenance, the System ID and password Web page will be displayed (refer to Figure 1.3.2-1).

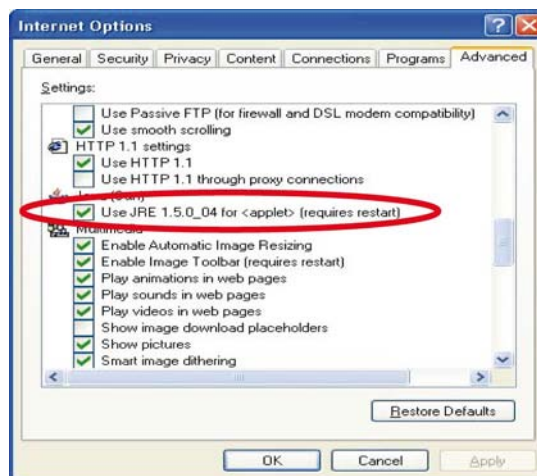


Figure 1.3.2-1 System ID & Password

1.3.3 Password Encryption

When enabled, the iPECS-MG can implement decryption of a password employing RC-6 block encryption (PGM 223). iPECS-MG employs a Sun Java Virtual Machine applet to implement AES encryption. The PC entering the Password must have a JAVA Virtual Machine and the JRE (Java Runtime Environment) Explorer option enabled to properly handle encrypted passwords. The Sun JVM is downloaded from the Java home page (www.java.com). Once downloaded, execute the downloaded file. To enable the Explorer JRE option:

1. From the Explorer menu select Internet Options>Advanced.
2. Click the checkbox to activate the “Use JRE....” Option.



3. After Restarting the computer, access the iPECS-MG Web ID & password page; the Applet iPECSPwd started message will display in the bottom-left corner of the screen to indicate password encryption is active (This message would not display according to Internet Explorer version or PC's model.).

1.4 Web Admin & Maintenance Overview

In the Web Admin initial screen (Section 1.3.2), enter the user ID and the password and click on the Login button to access the iPECS-MG Admin & Maintenance Main Page, refer to Figure 1.4-1.



Figure 1.4-1 iPECS Admin & Maintenance Main Page

Based on the user ID and the password entered, access to database items and maintenance functions is determined. The Admin & Maintenance Main Page is comprised of three sections:

- Menu bar – Upper frame
- Web site directory & navigation section – Left frame
- Info and Entry section – Central frame

Items in the Menu bar are mouse-clickable for selections of:

- Administration – access to system database.
- S/W Upload – permits upload of operating files to the iPECS-MG system and board.
- System Management – permits databases to be downloaded, including all data, system speed dial and SMDR.

1.5 iPECS Web Administration

To enter the system database, select the iPECS-MG Administration item in the menu bar. The Administration Navigation frame will be displayed on the left (refer to Figure 1.5-1).



Figure 1.5-1 Admin Menu

1.5.1 Pre-Programmed Data

Selecting a Pre-Programmed Data program group will display the sub-menu shown, Figure 1.5.1-1, and described in the following sections.



Figure 1.5.1-1 Pre-Programmed Data Sub-Menu

1.5.1.1 Location Program – PGM Code 100

Selecting Location Program will display the Input Entry page, Figure 1.5.1.1-1.

The screenshot displays the iPECS web administration interface. On the left is a navigation menu with the following items: iPECS, iPECS-MG/GS5EM-1.5Bb JUL/10, Boot Version-1.0A1 APR/10, OS Version-1.0A1 JUL/10, Find PGM, Hide Menu, Pre-Programmed Data, Location Program(100)[N], Slot Assignment(101)[N], Logical Slot Assignment(103)[N], DECT/IP/SIP Max Port(104)[N], IP-Phone Registration(106)[N], DTIM/SLTM Registration(107)[N], IP Address Plan(108~109)[N], Numbering Plan, Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, and Voice Network. The main content area is titled "[Location Program]" and contains a table with the following data:

| Attribute | Value | Range |
|-------------|--------------|-------------------|
| Nation Code | China(P.R.C) | |
| Site Name | | Max 24 Characters |

Below the table is a "Save" button. A note at the bottom of the main content area states: "You cannot change the nation code when mode switch 1 is set to the on position. If you want to change the nation code, then set dip switch to the off position."

Figure 1.5.1.1-1 Location Program

Under Location Program, the country is identified using international dial codes (Nation Code). A 24-character Site Name may be defined. This information is used to set gain, frequencies and other system characteristics specific to the country and regional regulatory requirements. The Site Name is primarily useful for the installer/programmer as a reference to customer.

1.5.1.2 Slot Assignment – PGM Code 101

Selecting Slot Assignment will display the page shown, Figure 1.5.1.2-1.

Figure 1.5.1.2-1 Slot Assignment

Table 1.5.1.2-1 Slot Assignment Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-------------|---|---------|
| Slot No. | The slot no 0: The virtual slot for AAFU or VOIU in MPB 1: DSIU slot on MPB 2-18: The real slot no 19-56: Slot no for iPECS Gateway(DTIM/SLTM/MATM) 88: The virtual slot for SIP Phone 99: The virtual slot for proprietary phone(IP Phone or Phontage) | |
| Logical No. | Display logical number of device. | |
| Connection | Display the board connection status. | |
| Type | Display the board type. Select the board type to add new board. | |
| No. of Port | Display the port number of board. | |
| State | Display the device status on board. | |
| MAC Address | Display the MAC address of gateway. | |
| IP Address | Display the IP Address of board or gateway. | |
| Version | Display the version of board or gateway. | |
| CPU | Display the CPU type of board or gateway. | |

1.5.1.3 Logical Slot Assignment

Selecting Logical Slot Assignment will display the page shown, Figure 1.5.1.3-1.

iPECS
iPECS-MG/GS56M-1.5Bb JUL/10
Boot Version-1.0A APR/10
OS Version-1.0Ak JUL/10

Administration | S/W Upgrade | System Management | Log Out

[Logical Slot Assignment]

[COL][STA][VMIB]

CO Logical Slot Assignment

| Slot No. | Current Order | Type | Logical Number | IP Address | Order |
|----------|---------------|----------|----------------|----------------|-------|
| 2 | 1 | LCOB8 | 1 - 8 | | 1 |
| 3 | 2 | VOIB24 | 9 - 32 | 192.168.123.16 | 2 |
| 4 | 3 | PRIB(E1) | 33 - 62 | | 3 |
| 9 | 4 | BRIB | 63 - 66 | | 4 |
| 10 | 5 | PRIB(E1) | 67 - 96 | | 5 |

Save
Reset System

Figure 1.5.1.3-1 Logical Slot Assignment of CO Board

iPECS
iPECS-MG/GS56M-1.5Bb JUL/10
Boot Version-1.0A APR/10
OS Version-1.0Ak JUL/10

Administration | S/W Upgrade | System Management | Log Out

[Logical Slot Assignment]

[COL][STA][VMIB]

Station Logical Slot Assignment

| Slot No. | Current Order | Type | Logical Number | IP Address | Order |
|----------|---------------|--------|----------------|------------|-------|
| 1 | 1 | DSIU | 1000 - 1011 | | 1 |
| 6 | 3 | WTIB | 1036 - 1043 | | 3 |
| 7 | 2 | SLIB24 | 1012 - 1035 | | 2 |
| 9 | | BRIB | | | |
| 88 | 4 | SIP | 1044 - 1075 | | 4 |
| 99 | 5 | IPP | 1076 - 1107 | | 5 |

Save
Reset System

Figure 1.5.1.3-2 Logical Slot Assignment of Station Board

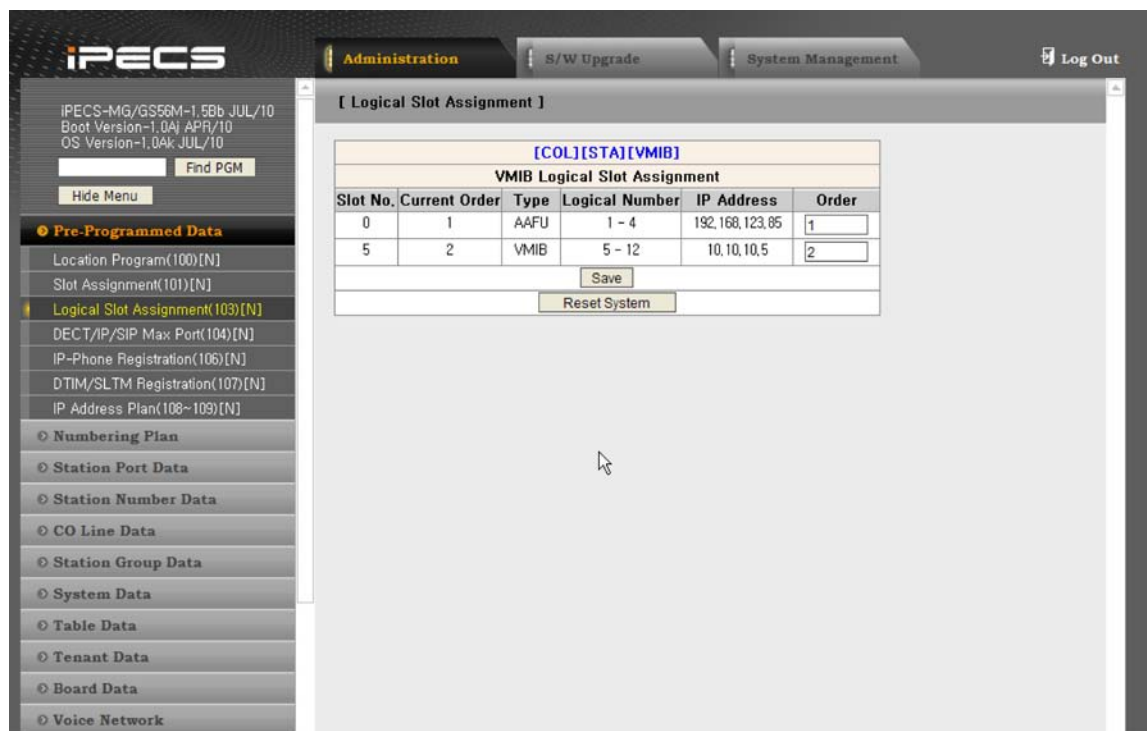


Figure 1.5.1.3-3 Logical Slot Assignment of VMIB Board

The CO/Station/VMIB logical order can be changed by adding a new board, deleting a board or re-arranging the slot order. After changing the logical slot assignment, the system should be reset to apply the updated order.

1.5.1.4 DECT/IP Phone/SIP Phone Max. Port – PGM Code 104

Selecting DECT/IP/SIP Max Port will display the page shown, Figure 1.5.1.4-1.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar contains a menu with options like 'Pre-Programmed Data', 'Location Program(100)[N]', 'Slot Assignment(101)[N]', 'Logical Slot Assignment(103)[N]', 'DECT/IP/SIP Max Port(104)[N]', 'IP-Phone Registration(106)[N]', 'DTIM/SLTM Registration(107)[N]', 'IP Address Plan(108~109)[N]', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', and 'Voice Network'. The main content area is titled '[Max Number of Phones]' and contains a table with the following data:

| Attribute | Value | Range |
|---------------------------|-------|-------|
| Max Number of DECT Phones | 8 | 0-192 |
| Max Number of IP Phones | 32 | 0-324 |
| Max Number of SIP Phones | 32 | 0-324 |

A 'Save' button is located in the top right corner of the main content area.

Figure 1.5.1.4-1 DECT/IP/SIP Maximum Port Assignment

The DECT, Proprietary Phone (IP Phone or Phontage) and SIP Phone number to be registered can be assigned. After making the necessary updates, reset the system to apply the changes.

Table 1.5.1.4-1 Maximum Port Assignment Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------------------------|--|---------|
| Maximum Number of DECT | Max. No of DECT that can be registered to the System. | 8 |
| Maximum Number of IP Phone | Max. No of IP Phone that can be registered to the System. | 32 |
| Maximum Number of SIP Phone | Max. No of SIP Phone that can be registered to the System. | 32 |

1.5.1.5 IP-Phone Registration – PGM Code 106

Selecting IP-Phone Registration will display the page shown, Figure 1.5.1.5-1.

The screenshot shows the iPECS web administration interface. The sidebar on the left contains a menu with the following items: Pre-Programmed Data, Location Program(100)[N], Slot Assignment(101)[N], Logical Slot Assignment(103)[N], DECT/IP/SIP Max Port(104)[N], IP-Phone Registration(106)[N] (highlighted), DTIM/SLTM Registration(107)[N], IP Address Plan(108~109)[N], Numbering Plan, Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, and Voice Network. The main content area is titled '[IP-Phone Registration Table]' and features a 'Save' button. Below the title, there is a table with the following columns: Index, MAC Address, ID, Password, Station Number, IP Address, and Firewall. The table contains 18 rows of data. The index range is displayed as [1-50][51-100][101-150][151-200][201-250][251-300].

| Index | MAC Address | ID | Password | Station Number | IP Address | Firewall |
|-------|--------------|----|----------|----------------|----------------|----------|
| 1 | 001a7ea848b0 | | | 1076 | 192,168,123,72 | |
| 2 | 001a7ea7a28c | | | 1077 | 192,168,123,69 | |
| 3 | 001a7ea383c2 | | | 1078 | 192,168,123,71 | |
| 4 | 001a7ea7a848 | | | 1079 | 192,168,123,77 | |
| 5 | 00405a017aaf | | | 1080 | 0,0,0,0 | |
| 6 | 001a7ea39369 | | | 1081 | 0,0,0,0 | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |

Figure 1.5.1.5-1 IP-Phone Registration Table

When the desired Index is selected on the screen, the range is shown above (ex., [1-50], [51-100], [101-150]).

Table 1.5.1.5-1 Registration Table Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|---------------------|---|---------|
| Index | The index of IP phone | |
| MAC Address | MAC Address of IP phone registered | |
| ID | ID of Phontage registered | |
| Password | Password of Phontage registered | |
| Station Number | Displays the station number if IP phone/Phontage is registered. | |
| IP Address | Displays the IP Address of the IP phone/Phontage. | |
| Firewall IP Address | Displays the Firewall IP Address of the IP phone/Phontage. | |
| Type | Displays the model name of the IP phone/Phontage. | |
| RTP Security | Enable or disable RTP Security of the IP phone. | |
| State | Displays the connection status of the IP phone/Phontage. | |
| Mode | Displays the connection mode of the IP phone/Phontage. | |
| Version | Displays the version of the IP phone/Phontage. | |

1.5.1.6 DTIM/SLTM Registration – PGM Code 107

Selecting DTIM/SLTM/MATM Registration will display the page shown, Figure 1.5.1.6-1.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left includes options such as "Pre-Programmed Data", "Numbering Plan", "Station Port Data", "Station Number Data", "CO Line Data", "Station Group Data", "System Data", "Table Data", "Tenant Data", "Board Data", and "Voice Network". The "DTIM/SLTM Registration(107)[N]" option is highlighted. The main content area displays the "DTIM/SLTM Registration Table" with the following columns: Slot No., MAC Address, Logical Number, IP Address, Firewall IP Address, RTP Security, and Save. The table contains 20 rows of data, all with default values (0.0.0.0, OFF, etc.).

Figure 1.5.1.6-1 DTIM/SLTM/MATM Registration Table

Table 1.5.1.6-1 Registration Table Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|---------------------|--|---------|
| Slot No. | Slot number of DTIM/SLTM/MATM | |
| MAC Address | MAC Address of gateway | |
| Logical Number | Display the station number of DTIM/SLTM/MATM | |
| Firewall IP Address | Displays the Firewall IP Address of the gateway. | |
| RTP Security | Enables or disables RTP Security of the gateway. | |
| Type | Displays the gateway type. | |
| State | Displays the connection status of the gateway. | |
| Mode | Displays the connection mode of DTIM/SLTM/MATM. | |
| Version | Displays the version of the DTIM/SLTM/MATM. | |

1.5.1.7 IP Address Plan – PGM Codes 108–109

Selecting IP Address Plan will display the page shown, Figure 1.5.1.7-1.

The screenshot shows the iPECS Web Administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The sidebar menu on the left lists various system settings, with 'IP Address Plan(108~109)[N]' selected. The main content area is titled '[System IP Address Plan]' and contains a table with the following attributes and values:

| Attribute | Value |
|-----------------------------|-----------------|
| IP Address | 192.168.123.85 |
| Subnet Mask | 255.255.255.0 |
| Router IP Address | 192.168.123.254 |
| Firewall IP Address | 0.0.0.0 |
| DNS IP Address | 0.0.0.0 |
| Primary DNS Address | |
| Secondary DNS Address | |
| Third DNS Address | |
| Fourth DNS Address | |
| H.323 Port (0~9999) | 1720 |
| SIP Port (0~9999) | 5060 |
| DHCP Usage | OFF |
| DiffServ (0~63) | 4 |
| MAC Address | 00405a2963ea |
| IPKTS Protocol Port | 5588 |
| Private Subnet Mask | 255.255.255.0 |
| Application Release Version | 56M-1.5Bb |
| Application Release Date | JUL/10 |
| Boot Version | 1.0Aj |
| Boot Release Date | APR/10 |
| OS Version | 1.0Ak |
| OS Release Date | JUL/10 |

A 'Save' button is located in the top right corner of the configuration area.

Figure 1.5.1.7-1 System IP Address Plan

The System IP Address Plan sets several IP addresses for external VoIP calls and the router, etc.

NOTE

The IP and Router addresses must be routable IP addresses for access to an external VoIP network, remote access by an IP Phone and remote Web access. System IP Address can't use '10.1.1.xxx'. This IP Address is used for inner board.

When used, the VOIB (Voice over IP Board) must also have a routable IP address for access to/from an external VoIP network and a remote device.

iPECS-MG can be installed behind a NAT server, if the NAT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address" as the fixed IP address for communication with remote devices. This address must be assigned as the MFIM address in the remote device.

Table 1.5.1.7-1 System IP Address Plan

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------------------------|---|---------------|
| IP Address | Public IP Address required for remote user and external VoIP network access (IPv4 format). | 10.10.10.1 |
| Subnet Mask | | 255.255.255.0 |
| Router IP Address | IP Address of router for external network (WAN/IP) access. Required for shared voice and data LAN and remote Web access. | 10.10.10.254 |
| Firewall IP Address | When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned in this field. Also, use this IP address for the MFIM address in remote devices. | 0.0.0.0 |
| DNS IP Address | IP Address of the first Domain Name Server, which iPECS will use to resolve URLs to an IP address. | 0.0.0.0 |
| Primary DNS Address | IP Address of the second Domain Name Server. | |
| Secondary DNS Address | IP Address of the third Domain Name Server. | |
| Third DNS Address | IP Address of the fourth Domain Name Server. | |
| Fourth DNS Address | IP Address of the fifth Domain Name Server. | |
| H. 323 Port (0-9999) | TCP Port for H. 323 signaling | 1720 |
| SIP Port (0-9999) | UDP Port for SIP signaling | 5060 |
| DHCP Usage | If this field is set to 'ON', the system obtains the IP-address from the DHCP Server when it is booting. | Off |
| Diffserv (0-63) | Diff-Serv pretag value | 4 |
| MAC Address | Display the MAC Address of MPB. | |
| IPKTS Protocol Port | Display UDP Port for communicating between MPB and Boards (or, IP Phone). | 5588 |
| Private Subnet Mask | Private Subnet Mask | |
| Application Release Version | Display system version. | |
| Application Release Date | Display the released date of system software. | |
| Boot Version | Display system boot version. | |
| Boot Release Date | Display the released date of system boot. | |
| OS Version | Display the version of system OS | |
| OS Release Date | Display the released date of system OS | |

1.5.2 Numbering Plan

Selecting the Numbering Plan program group returns the sub-menu is displayed, Figure 1.5.2-1.

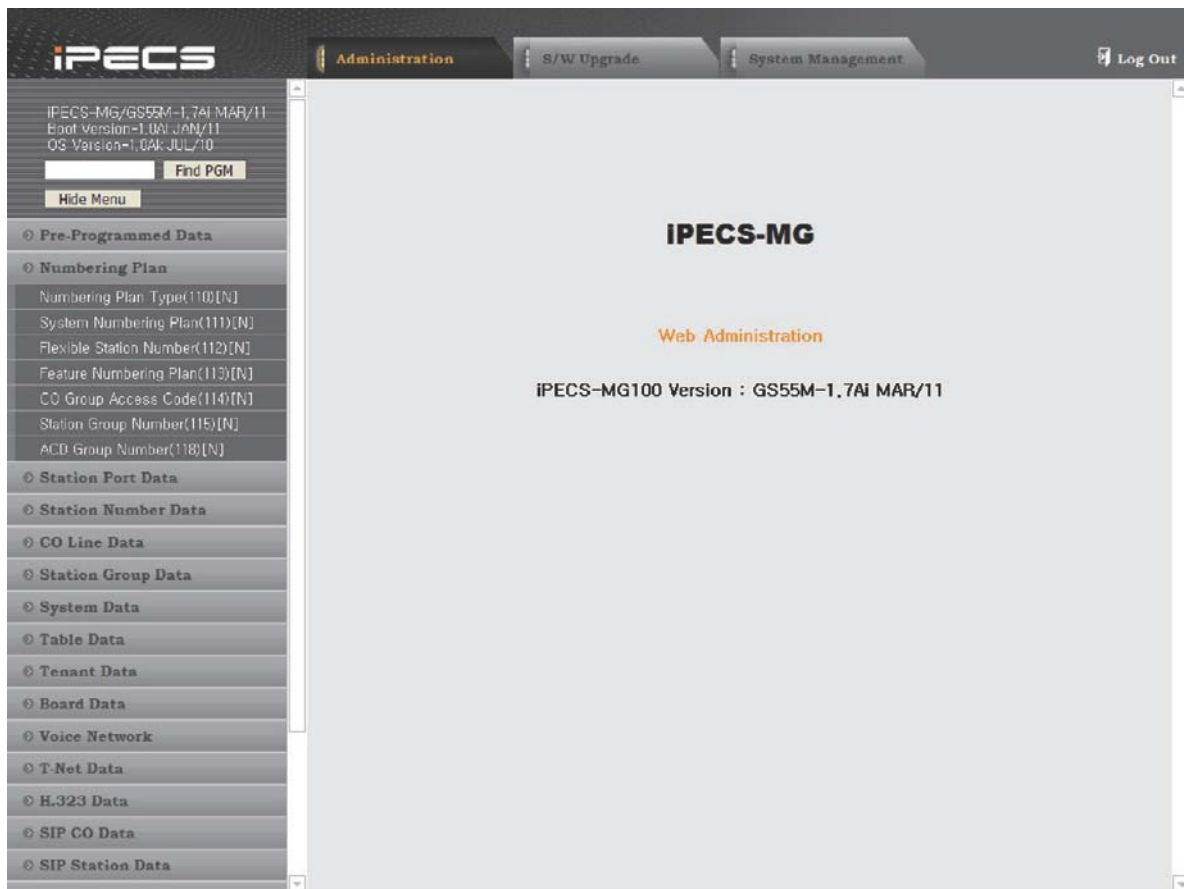


Figure 1.5.2-1 Numbering Plan sub-menu

1.5.2.1 Numbering Plan Type – PGM Code 110

Selecting Numbering Plan Type will display the page shown, Figure 1.5.2.1-1.

| Attribute | Value |
|-----------------------------|-------|
| Default Numbering Plan Type | 1 |

Save

Figure 1.5.2.1-1 Numbering Plan Type

iPECS-MG system provides default Numbering plan set. One of any numbering plans can be installed or every numbering plan can be cleared.

If numbering plan type 7 (Delete All Numbering) is selected, all numbering codes are deleted. After deleting, user should assign the 'System Numbering Plan (PGM 111)' first. After configuring the system numbering plan, user can assign the other numbering plan code. This is useful when user wants to reconfigure all the numbering codes without default values.

1.5.2.2 System Numbering Plan – PGM Code 111

Selecting System Numbering Plan will display page shown, Figure 1.5.2.2-1.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar menu has 'System Numbering Plan' selected. The main content area is titled '[System Numbering Plan]' and contains a table with 25 rows. Each row has three columns: 'Index', 'Prefix Code', and 'More Digit (0-4)'. The table is currently empty, with input fields for each value. A 'Save' button is visible in the top right corner.

| Index | Prefix Code | More Digit (0-4) |
|-------|----------------------|----------------------|
| 1 | <input type="text"/> | <input type="text"/> |
| 2 | <input type="text"/> | <input type="text"/> |
| 3 | <input type="text"/> | <input type="text"/> |
| 4 | <input type="text"/> | <input type="text"/> |
| 5 | <input type="text"/> | <input type="text"/> |
| 6 | <input type="text"/> | <input type="text"/> |
| 7 | <input type="text"/> | <input type="text"/> |
| 8 | <input type="text"/> | <input type="text"/> |
| 9 | <input type="text"/> | <input type="text"/> |
| 10 | <input type="text"/> | <input type="text"/> |
| 11 | <input type="text"/> | <input type="text"/> |
| 12 | <input type="text"/> | <input type="text"/> |
| 13 | <input type="text"/> | <input type="text"/> |
| 14 | <input type="text"/> | <input type="text"/> |
| 15 | <input type="text"/> | <input type="text"/> |
| 16 | <input type="text"/> | <input type="text"/> |
| 17 | <input type="text"/> | <input type="text"/> |
| 18 | <input type="text"/> | <input type="text"/> |
| 19 | <input type="text"/> | <input type="text"/> |
| 20 | <input type="text"/> | <input type="text"/> |
| 21 | <input type="text"/> | <input type="text"/> |
| 22 | <input type="text"/> | <input type="text"/> |
| 23 | <input type="text"/> | <input type="text"/> |
| 24 | <input type="text"/> | <input type="text"/> |
| 25 | <input type="text"/> | <input type="text"/> |

Figure 1.5.2.2-1 System Numbering Plan

To assign a numbering plan code, its type should be matched with a System Numbering Plan, which consists of a prefix, and more digits. Prefix means the leading digits of the numbering plan code, and more digits means number of following digits of that Prefix code. The maximum length of each numbering plan code is 8, and up to 4 more digits.

When a System Numbering Plan covers numbering plan codes of more than 4 digits, the preceding digits of the prefix code placed at more than 4th digits from end digit called Master Prefix Digits; Maximum 3 in MG-100 system and 5 in MG-300 system Master Prefix Digits can exist.

NOTE

System Numbering Plan conflict is not allowed; if there's Prefix '1' and more digit 4, then there cannot be other prefix '10' with more digit 4.

Table 1.5.2.2-1 System Numbering Plan

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|------------------|-------------|---------|
| Prefix Code | Prefix Code | |
| More Digit (0-4) | More Digit | |

1.5.2.3 Flexible Station Numbering Plan – PGM Code 112

Selecting Flexible Station Number will return the page shown, Figure 1.5.2.3-1. This page permits changes in the Station Numbering Plan using one of three methods:

- Do not Use Range Input: use to change an individual station number.
- Order Range: use to change the station numbers associated with a range of “Order Numbers” using the “Start Station Number” as the first station number to assign in the range. The station number is incremented by one over the range of Order numbers.
- Station Range: use to change station numbers over a range of stations using the “Start Station Number” as the first station number to assign range. The station number is incremented by one for each successive station in the range.
- Station Number Search: use to search station number. If station number is searched, the station number table is updated and the searched station number is displayed to red.

Selecting a Station Order, blue text in the table header, will display the Station Numbering Plan information for the selected Order Range.

iPECS-MG/6355M-1.7A/ MAR/11
Boot Version-1.0A/ JAN/11
OS Version-1.0A/ JUL/10

Administration | S/W Upgrade | System Management | Log Out

[Flexible Station Number]

☐ Do Not Use Range Input

☐ Enter Range Order : -
Start Station Number :

☐ Enter Station Range : -
Start Station Number :

☐ Station Number :

| Order | Station Number | Slot(ch#) | IP Address | New Station Number |
|-------|----------------|--------------|------------|--------------------|
| 1 | 100 | 1 (DSIU #1) | | 100 |
| 2 | 101 | 1 (DSIU #2) | | 101 |
| 3 | 102 | 1 (DSIU #3) | | 102 |
| 4 | 103 | 1 (DSIU #4) | | 103 |
| 5 | 104 | 1 (DSIU #5) | | 104 |
| 6 | 105 | 1 (DSIU #6) | | 105 |
| 7 | 106 | 1 (DSIU #7) | | 106 |
| 8 | 107 | 1 (DSIU #8) | | 107 |
| 9 | 108 | 1 (DSIU #9) | | 108 |
| 10 | 109 | 1 (DSIU #10) | | 109 |
| 11 | 110 | 1 (DSIU #11) | | 110 |
| 12 | 111 | 1 (DSIU #12) | | 111 |
| 13 | 112 | | | 112 |
| 14 | 113 | | | 113 |
| 15 | 114 | | | 114 |
| 16 | 115 | | | 115 |
| 17 | 116 | | | 116 |
| 18 | 117 | | | 117 |

Figure 1.5.2.3-1 Flexible Station Number

1.5.2.4 Flexible Numbering Plan – PGM Codes 113

Selecting Feature Numbering of 'Feature Numbering Plan' will return the page shown, Figure 1.5.2.4-1.

| Order | Attribute | Value |
|-------|----------------------------------|-------|
| 1 | Attendant Call | 0 |
| 2 | Conference Room 1 | 571 |
| 3 | Conference Room 2 | 572 |
| 4 | Conference Room 3 | 573 |
| 5 | Conference Room 4 | 574 |
| 6 | Conference Room 5 | 575 |
| 7 | Conference Room 6 | 576 |
| 8 | Conference Room 7 | 577 |
| 9 | Conference Room 8 | 578 |
| 10 | Conference Room 9 | 579 |
| 11 | Internal Page | 543 |
| 12 | Personal VM Page | 544 |
| 13 | Announcement Page for Attendant | 545 |
| 14 | Page Auto Answer | 546 |
| 15 | Internal Page Answer | 547 |
| 16 | External Page | 548 |
| 17 | Internal/External All Page | 549 |
| 18 | Call Forward Register | 554 |
| 19 | Pilot Hunt Call Forward Register | 514 |
| 20 | Pilot Hunt Call Forward Cancel | 515 |
| 21 | DND State Change | 516 |
| 22 | DND Delete | 517 |
| 23 | Account Code | 550 |
| 24 | CO Flash | 551 |

Figure 1.5.2.4-1 Flexible Number Plan

Feature dial codes for the system can be assigned using the system Flexible Number Plan. Feature codes should be matched 'System Numbering Plan' and must not conflict. The system will not update the database until correct data is entered.

Table 1.5.2.4-1 provides a brief description for each feature and the default codes as they appear in base Numbering Plan 1.

Table 1.5.2.4-1 Feature Numbering Codes

| NO | FEATURE NAME | CODE | REMARK |
|----|-------------------|------|--------|
| 1 | Attendant Call | 0 | |
| 2 | Conference Room 1 | 571 | |
| 3 | Conference Room 2 | 572 | |
| 4 | Conference Room 3 | 573 | |
| 5 | Conference Room 4 | 574 | |
| 6 | Conference Room 5 | 575 | |
| 7 | Conference Room 6 | 576 | |
| 8 | Conference Room 7 | 577 | |
| 9 | Conference Room 8 | 578 | |
| 10 | Conference Room 9 | 579 | |

Table 1.5.2.4-1 Feature Numbering Codes

| NO | FEATURE NAME | CODE | REMARK |
|----|---|------|--|
| 11 | Internal Page | 543 | 543 + 00, xx 00: All Call Page Xx: Page Group # |
| 12 | Personal VM Page | 544 | |
| 13 | Announcement Page For Attendant | 545 | |
| 14 | Page Auto Answer | 546 | |
| 15 | Internal Page Answer (Meet-Me Page) | 547 | |
| 16 | External Page | 548 | |
| 17 | Internal-External Page All | 549 | |
| 18 | Call Forward Register | 554 | 554 + Type + Destination |
| 19 | Pilot Hunt Call Forward Register | 514 | 514 + Type + Destination |
| 20 | Pilot Hunt Call Forward Cancel | 515 | |
| 21 | DND Status Change | 516 | |
| 22 | DND Delete | 517 | |
| 23 | Account Code | 550 | |
| 24 | CO Flash | 551 | |
| 25 | Last Number Redial | 552 | |
| 26 | Speed Program | 553 | |
| 27 | Speed Dial | 555 | |
| 28 | Message Wait Register | 557 | |
| 29 | Message Wait Answer | 558 | |
| 30 | Record VM Subscriber Name | 542 | |
| 31 | Call Back Register | 518 | |
| 32 | Call Back Cancel | 519 | |
| 33 | Group Call Pickup | 564 | |
| 34 | Direct Call Pickup | 7 | |
| 35 | Walking COS | 520 | |
| 36 | Call Parking Location | 541 | 541 + xx Xx: Parking Location (00-49) |
| 37 | PGM Mode Access | 521 | |
| 38 | Two-Way Record | 522 | |
| 39 | VMIB Access | 523 | |
| 40 | AME Access | 524 | |
| 41 | CO Line Access | 88 | 88 + xxx Xxx: CO Line # (001-200: MG-300 01-80: MG-100) |
| 42 | External Voice Mail Message Wait Enable | *8 | |
| 43 | External Voice Mail Message Wait Cancel | *9 | |

Table 1.5.2.4-1 Feature Numbering Codes

| NO | FEATURE NAME | CODE | REMARK |
|----|----------------------------------|------|---|
| 44 | MCID Request | *0 | |
| 45 | Emergency Alert | 563 | |
| 46 | PTT Group Login/Logout | 538 | 538 + (0-9,*) 0-9: PTT Group # *: Log out |
| 47 | Hot Desk Log In/Log out | 525 | |
| 48 | Station Name Register | 526 | |
| 49 | Create Conference Room | 527 | 527 + Conf. Room # |
| 50 | Delete Conference Room | 528 | 528 + Conf. Room # |
| 51 | Wake-Up Register | 529 | 529 + HH: MM |
| 52 | Wake-Up Cancel | 530 | |
| 53 | Temporarily COS Down | 531 | |
| 54 | Retrieve COS | 532 | |
| 55 | Password Change | 533 | |
| 56 | Interphone Group Access | 534 | |
| 57 | Call Wait Register | 535 | |
| 58 | Pre-Selected MessagePGM | 536 | |
| 59 | Forced Handsfree Call | 537 | |
| 60 | Call Base CLIR | 582 | |
| 61 | CLIR Access | 583 | |
| 62 | COLR Access | 584 | |
| 63 | Pilot Hunt Call | 585 | |
| 64 | One-way Command Group Call | 581 | |
| 65 | Conference Command Group Call | 580 | |
| 66 | Intrude Register | 589 | |
| 67 | Camp-On Register | 590 | |
| 68 | Voice-OverRegister | 591 | |
| 69 | Mobile Extension Number Register | 592 | |
| 70 | Mobile Extension CLI Register | 593 | |
| 71 | Mobile Access | 594 | |
| 72 | Announcement table | 670 | |
| 73 | Announcement table and Drop | 671 | |
| 74 | Hold | 560 | |
| 75 | Record VM Greeting | 561 | |
| 76 | System Memo | 675 | |
| 77 | DISA Tone Service | 678 | |
| 78 | All Feature Cancel | 679 | |
| 79 | Add Conference Member | 680 | |

Table 1.5.2.4-1 Feature Numbering Codes

| NO | FEATURE NAME | CODE | REMARK |
|-----|-----------------------------------|------|--------|
| 80 | System Alarm Reset | 565 | |
| 81 | Fault Alarm Reset | 564 | |
| 82 | Door Open | #*1 | |
| 83 | Keypad Facility | ##* | |
| 84 | T-Net Login/Logout | 586 | |
| 85 | Universal Answer | 587 | |
| 86 | USB Call Record | 588 | |
| 87 | Delete All VM Message | 681 | |
| 88 | VM Page Message Record | 682 | |
| 89 | Direct VM Transfer | 683 | |
| 90 | Loop Key | 684 | |
| 91 | Call Log | 685 | |
| 92 | ACD Agent Login/Logout | 500 | |
| 93 | ACD Agent DND | 501 | |
| 94 | ACD Agent Work Mode | 502 | |
| 95 | ACD Agent Auto Work | 503 | |
| 96 | ACD Agent Auto answer | 504 | |
| 97 | ACD Call Indication | 508 | |
| 98 | Non-ACD Call Indication | 509 | |
| 99 | ACD Supervisor Group Call Forward | 890 | |
| 100 | ACD Supervisor Group Night Mode | 891 | |
| 101 | ACD Supervisor Group Holiday Mode | 892 | |
| 102 | ACD Supervisor Queued Call Answer | 895 | |
| 103 | ACD Supervisor Agent State Check | 896 | |
| 104 | ACD Supervisor Silent Monitor | 897 | |
| 105 | ACD Supervisor Traffic Check | 898 | |
| 106 | ACD Announce Play | 899 | |
| 107 | Day/Night Program | 513 | |
| 108 | DID/DISA Restriction | 686 | |
| 109 | Company Directory | 539 | |
| 110 | Outcall Notification | 596 | |
| 111 | Outcall Attempts | 597 | |
| 112 | Outcall Interval | 598 | |
| 113 | Outcall Phone Number | 599 | |
| 114 | Bath Alarm reset | #10 | |
| 115 | Hotel Maid Status | #11 | |
| 116 | Hotel Mini Bar | #12 | |
| 117 | Hotel Guest Info Display | #13 | |
| 118 | Hotel Room Monitor | #14 | |
| 119 | Hotel Form Feed | #15 | |
| 120 | Hotel VIP Wake Up | #16 | |

Table 1.5.2.4-1 Feature Numbering Codes

| NO | FEATURE NAME | CODE | REMARK |
|-----|---|------|--------|
| 121 | Cancel Call Forward | #17 | |
| 122 | Device BLF Indication | #18 | |
| 123 | Register Call Forward of a group | #19 | |
| 124 | Cancel Call Forward of a group | #20 | |
| 125 | Selects answer greeting mode | #21 | |
| 126 | Register Call Forward for FOP | #22 | |
| 127 | Cancel Call Forward for FOP | #23 | |
| 128 | Mobile Extension Status change feature code | 595 | |
| 129 | DND State change code about group call in station group | #24 | |
| 130 | Retrieve a held CO line | #25 | |
| 131 | Select auto call record mode | #26 | |
| 132 | Override Hold feature code. | #27 | |
| 133 | Override Disconnect feature code | #28 | |
| 134 | Prepaid money input code for Attendant | #29 | |
| 135 | Mobile CallBack | #30 | |
| 136 | External VM Page | 505 | |
| 137 | Internal/External All VM Page | 506 | |
| 138 | Monitor Button | #31 | |
| 139 | ACD Agent Help to Supervisor | #33 | |
| 140 | Barge-In | #32 | |

1.5.2.5 CO Group Access Code - PGM code 114

Selecting CO Group Access Code of Feature Numbering Plan will return the data entry page, Figure 1.5.2.5-1. This page permits changes in the CO Group Access Code using one of two methods:

- Not Use Range Input: use to change an individual CO Group Access Code.
- Order Range: use to change the CO Group Access Codes associated with a range of "Order Numbers" using the "Start CO Group Access Code" as the first number to assign in the range. The CO group access code is incremented by one over the range of Order numbers.

The screenshot shows the iPECS web administration interface. The sidebar on the left contains a menu with the following items: Pre-Programmed Data, Numbering Plan (selected), Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, and SIP Station Data. The main content area is titled '[CO Group Access Code]' and includes a 'Save' button in the top right corner. Below the title, there are two radio buttons: 'Not Use Range Input' (selected) and 'Enter Order Range :'. The 'Enter Order Range' section includes a 'Start CO Group Access Code' field. Below these options is a table with the following structure:

| Order | CO Group Access Code | New CO Group Access Code |
|-------|----------------------|--------------------------|
| 1 | 9 | 9 |
| 2 | 801 | 801 |
| 3 | 802 | 802 |
| 4 | 803 | 803 |
| 5 | 804 | 804 |
| 6 | 805 | 805 |
| 7 | 806 | 806 |
| 8 | 807 | 807 |
| 9 | 808 | 808 |
| 10 | 809 | 809 |
| 11 | 810 | 810 |
| 12 | 811 | 811 |
| 13 | 812 | 812 |
| 14 | 813 | 813 |
| 15 | 814 | 814 |
| 16 | 815 | 815 |
| 17 | 816 | 816 |
| 18 | 817 | 817 |
| 19 | 818 | 818 |
| 20 | 819 | 819 |
| 21 | 820 | 820 |
| 22 | 821 | 821 |

Figure 1.5.2.5-1 CO Group Access Code

1.5.2.6 Station Group Number - PGM code 115

Selecting Station Group Number of Feature Numbering Plan will return the page shown, Figure 1.5.2.6-1. This page permits changes in the Station Group Number using one of two methods:

- Not Use Range Input: use to change an individual station group number.
- Order Range: use to change the station group numbers associated with a range of "Order Numbers" using the "Start Station Group Number" as the first station group number to assign in the range. The station group number is incremented by one over the range of Order numbers.

Station Group Number(115)[N]

Not Use Range Input

Enter Order Range : -

Start Station Group Number :

| Order | Station Group Number | New Station Group Number |
|-------|----------------------|--------------------------|
| 1 | 620 | 620 |
| 2 | 621 | 621 |
| 3 | 622 | 622 |
| 4 | 623 | 623 |
| 5 | 624 | 624 |
| 6 | 625 | 625 |
| 7 | 626 | 626 |
| 8 | 627 | 627 |
| 9 | 628 | 628 |
| 10 | 629 | 629 |
| 11 | 630 | 630 |
| 12 | 631 | 631 |
| 13 | 632 | 632 |
| 14 | 633 | 633 |
| 15 | 634 | 634 |
| 16 | 635 | 635 |
| 17 | 636 | 636 |
| 18 | 637 | 637 |
| 19 | 638 | 638 |
| 20 | 639 | 639 |

Save

Figure 1.5.2.6-1 Station Group Number

1.5.2.7 ACD Group Number - PGM code 118

Selecting ACD Group Number of Feature Numbering Plan will return the page shown, Figure 1.5.2.7-1. This page permits changes in the ACD Group Number using one of two methods:

- Not Use Range Input: use to change an individual ACD group number.
- Order Range: use to change the ACD group numbers associated with a range of “Order Numbers” using the “Start ACD Group Number” as the first ACD group number to assign in the range. The ACD group number is incremented by one over the range of Order numbers.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', and 'System Management'. The left sidebar menu is expanded to 'Numbering Plan', which includes options like 'Numbering Plan Type', 'System Numbering Plan', 'Flexible Station Number', 'Feature Numbering Plan', 'CO Group Access Code', 'Station Group Number', and 'ACD Group Number' (which is highlighted). The main content area is titled '[ACD Group Number]' and contains a 'Save' button. Below the title, there are two radio buttons: 'Not Use Range Input' (selected) and 'Enter Order Range :'. The 'Enter Order Range' section includes a 'Start ACD Group Number' field. Below these fields is a table with three columns: 'Order', 'ACD Group Number', and 'New ACD Group Number'. The table lists 20 rows of data, with the 'New ACD Group Number' column containing input fields for each row.

| Order | ACD Group Number | New ACD Group Number |
|-------|------------------|----------------------------------|
| 1 | 600 | <input type="text" value="600"/> |
| 2 | 601 | <input type="text" value="601"/> |
| 3 | 602 | <input type="text" value="602"/> |
| 4 | 603 | <input type="text" value="603"/> |
| 5 | 604 | <input type="text" value="604"/> |
| 6 | 605 | <input type="text" value="605"/> |
| 7 | 606 | <input type="text" value="606"/> |
| 8 | 607 | <input type="text" value="607"/> |
| 9 | 608 | <input type="text" value="608"/> |
| 10 | 609 | <input type="text" value="609"/> |
| 11 | 610 | <input type="text" value="610"/> |
| 12 | 611 | <input type="text" value="611"/> |
| 13 | 612 | <input type="text" value="612"/> |
| 14 | 613 | <input type="text" value="613"/> |
| 15 | 614 | <input type="text" value="614"/> |
| 16 | 615 | <input type="text" value="615"/> |
| 17 | 616 | <input type="text" value="616"/> |
| 18 | 617 | <input type="text" value="617"/> |
| 19 | 618 | <input type="text" value="618"/> |
| 20 | 619 | <input type="text" value="619"/> |

Figure 1.5.2.7-1 ACD Group Number

1.5.3 Station Port Data

Selecting the Station Port Data program group returns the sub-menu displayed, Figure 1.5.3-1.

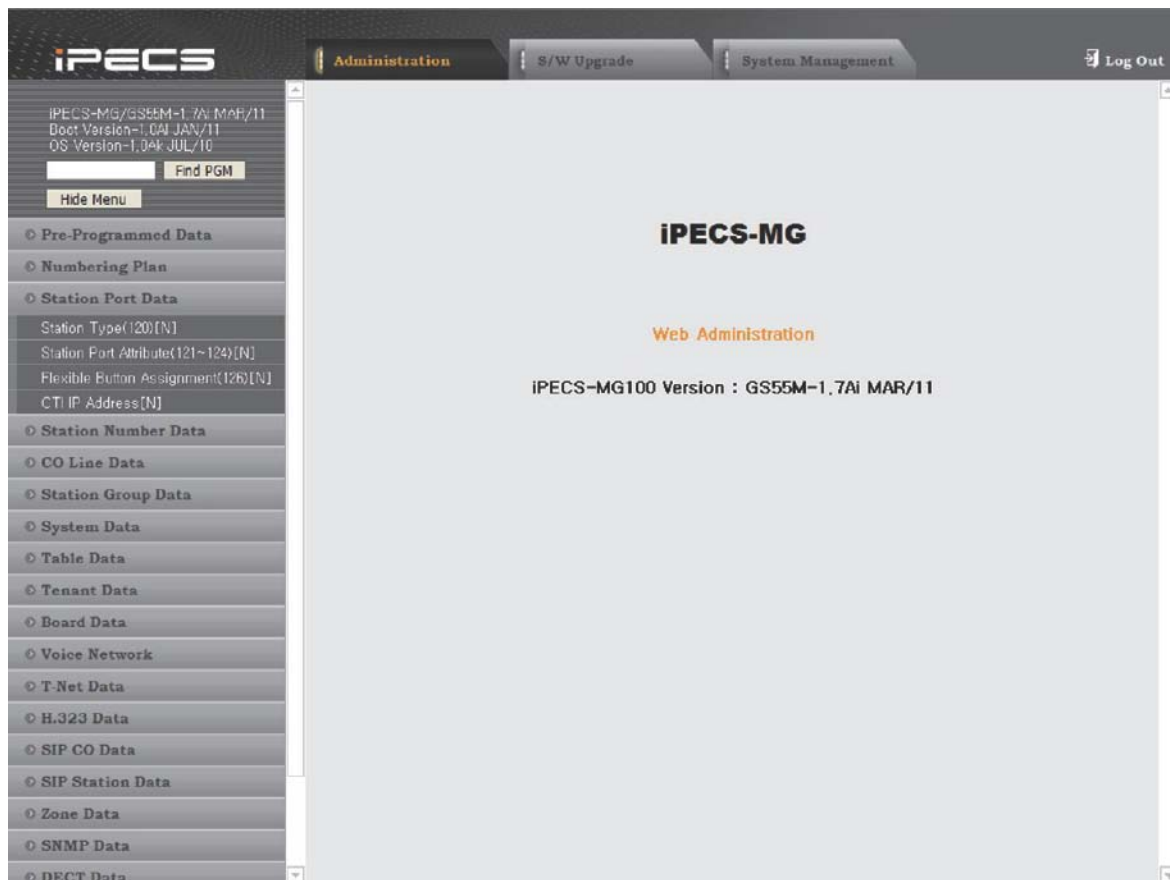


Figure 1.5.3-1 Station Port Data Sub-menu

1.5.3.1 Station Type – PGM Code 120

Selecting Station Type will display the Station Type data page shown, Figure 1.5.3.1-1. Select the 'Station Order' desired shown above table the header, [1–50], [51–100], [101–150]. The range selected displays on screen.

| Check All | Order | Station Number | Slot(ch#) | Main Type | Sub Type | 1 | 2 |
|--------------------------|-------|----------------|--------------|-----------|-------------|---|---|
| <input type="checkbox"/> | 1 | 100 | 1 (DSIU #1) | DKT | LKD-300 | | |
| <input type="checkbox"/> | 2 | 101 | 1 (DSIU #2) | DKT | | | |
| <input type="checkbox"/> | 3 | 102 | 1 (DSIU #3) | DKT | | | |
| <input type="checkbox"/> | 4 | 103 | 1 (DSIU #4) | DKT | | | |
| <input type="checkbox"/> | 5 | 104 | 1 (DSIU #5) | DKT | | | |
| <input type="checkbox"/> | 6 | 105 | 1 (DSIU #6) | DKT | | | |
| <input type="checkbox"/> | 7 | 106 | 1 (DSIU #7) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 8 | 107 | 1 (DSIU #8) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 9 | 108 | 1 (DSIU #9) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 10 | 109 | 1 (DSIU #10) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 11 | 110 | 1 (DSIU #11) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 12 | 111 | 1 (DSIU #12) | SLT | DTMF NORMAL | | |
| <input type="checkbox"/> | 13 | 112 | | | | | |
| <input type="checkbox"/> | 14 | 113 | | | | | |
| <input type="checkbox"/> | 15 | 114 | | | | | |
| <input type="checkbox"/> | 16 | 115 | | | | | |
| <input type="checkbox"/> | 17 | 116 | | | | | |
| <input type="checkbox"/> | 18 | 117 | | | | | |
| <input type="checkbox"/> | 19 | 118 | | | | | |
| <input type="checkbox"/> | 20 | 119 | | | | | |
| <input type="checkbox"/> | 21 | 120 | | | | | |
| <input type="checkbox"/> | 22 | 121 | | | | | |

Figure 1.5.3.1-1 Station Type

The SLT sub-type can be assigned a type used by the system to recognize the station's capability. Additionally, for DSS consoles the associated station is identified.

Table 1.5.3.1-1 STATION TYPE

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|----------------|--|---------|
| Station Number | Station Number | |
| Slot (ch#) | Displays the board name and slot number and channel (port) index at the board. | |
| Main Type | Displays main type of station | |
| Sub Type | Displays the station's type or select SLT type. | |
| DSS Map | DSS associated station number or LIP Serial DSS type. | |

1.5.3.2 Station Port Attributes – PGM Codes 121–124

Selecting Station Port Attributes will display the Station Port Attributes page, Figure 1.5.3.2-1. Enter a valid station range and click **[Load]** to enter Station Port Attributes data.

The screenshot shows the iPECS Web Administration interface. The left sidebar contains a menu with options like Pre-Programmed Data, Numbering Plan, Station Port Data, Station Type(120)[N], Station Port Attribute(121~124)[N], Flexible Button Assignment(126)[N], CTI IP Address[N], Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, SIP Station Data, Zone Data, and SNMP Data. The main content area is titled "[Station Port Attribute]" and includes a form to enter a station range (2000 to 2000) and buttons for Load, Overview, and Save. Below the form is a table of attributes for PGM 121 and PGM 122.

| Order | Attribute | Value | Range |
|----------------|-------------------------------|--------------|-------|
| PGM 121 | | | |
| 1 | Auto Speaker Selection | ON | |
| 2 | Headset Mode | Speaker | |
| 3 | Headset Ring | Speaker | |
| 4 | Group Listening | OFF | |
| 5 | Keyset Admin | ON | |
| 6 | No Touch Answer | OFF | |
| 7 | Howling Tone | ON | |
| 8 | Dummy Terminal | OFF | |
| 9 | Port Blocking | OFF | |
| 10 | Gain Table Index | Table 1 | |
| 11 | SLT Line Length | Short | |
| 12 | System Alarm Report | ENABLE | |
| 13 | Door Open Access | ENABLE | |
| PGM 122 | | | |
| 1 | LCD Language Display Mode | English | |
| 2 | LCD Date Display Mode | DD-MM-YY | |
| 3 | LCD Time Display Mode | 12 Hour Mode | |
| 4 | Backlight Usage | Busy Only | |
| 5 | LIP-8000 Phone Font | Gothic | |
| 6 | LIP-8000 Phone LCD Brightness | 7 | |
| 7 | Station Group Queue Display | OFF | |

Figure 1.5.3.2-1 Station Port Attributes

Station Port Attributes define the specific features and functions available to the installed terminal. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 1.5.3.2-1 for a description of the features and the input required.

Table 1.5.3.2-1 STATION PORT ATTRIBUTES

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------|---|---|---------|
| Auto Speak Selection | Enables [SPEAKER] activation when a CO/IP, DSS or other feature button is pressed, no need to lift handset. | 0: OFF 1: ON | ON |
| Headset Mode | Select of if Speakerphone mode, Headset mode and Ear Mic Mode. | 0: Speaker 1: Headset 2: Ear-Mic | Speaker |
| Headset Ring | In Headset mode, this item selects device to receive incoming ring signals. | 0: Speaker 1: Headset 2: Both 3: Ear-Mic | Speaker |
| Group Listening | Enables Group Listen feature, audio is sent to both the handset and speaker with the handset microphone active and speakerphone microphone OFF. | 0: OFF 1: ON | OFF |
| Keyset Admin | Enables station access to the System Database. | 0: OFF 1: ON | ON |
| No Touch Answer | Enables No-touch answer; this will automatically connect transferred calls to the station's speakerphone. | 0: OFF 1: ON | OFF |
| Howling Tone | Permits Howler tone to be sent to a SLT when left off-hook. | 0: OFF 1: ON | ON |
| Dummy Terminal | Determines whether a station is used as a Hot Desk terminal (must be set to 'ON'). | 0: OFF 1: ON | OFF |
| Port Blocking | If this value is set to ON, Station is blocked so it is impossible to use that station. | 0: OFF 1: ON | OFF |
| Gain Table Index | Determines Gain Table for each Station | 0: Table1 1: Table2 2: Table3 | Table 1 |
| SLT Line Length | This feature is used to distinguish the line length when the distance between SLT station and SLIB board is too variable. (Short: 0km, Long: 0-3km, Far: 3-7. 5km) | 0: Short 1: Long 2: Far | Short |
| System Alarm Report | Enable to receive system alarm signal. | 0: DISABLE 1: ENABLE | ENABLE |
| Door Open Access | Enable to use door open feature. | 0: DISABLE 1: ENABLE | DISABLE |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|---|--|--------------|
| LCD language Display Mode | Sets the Language used in the Station's LCD. | 0: English 1: Italian 2: Finnish 3: Dutch 4: Swedish 5: Danish 6: Norwegian 7: Hebrew 8: German 9: French 10: Portuguese 11: Spanish 12: Korean 13: Estonian 14: Russian 15: Turkish 16: Polish 17: Greek | English |
| LCD Date Display Mode | Sets the Station Date display format as month/day or day/month. | 0: DDMMYY 1: MMDDYY | DD-MM-YY |
| LCD Time Display Mode | Sets the Time display mode as 12 hour or 24-hour (military) time. | 0: 12 Hour Mode 1: 24 Hour Mode | 12 Hour Mode |
| Backlight Usage | If a station can support LCD backlight, you can set backlight usage option. | 0: Always Off 1: Busy Only 2: Always On 3: Auto (PGM 281-7) 4: Delay Off | Busy Only |
| LIP-8000 Phone Font | Determines the Font for LIP-8000 Series between Times New Roman and Gothic. | 0: Times New Roman 1: Gothic | Gothic |
| LIP-8000 Phone LCD Brightness | LIP-8000 Series terminal can adjust LCD brightness. | 0-15 | 7 |
| Station Group Queue Display | If this value set to ON, Queue Information of station group is display to member of group. | 0: OFF 1: ON | OFF |
| IDLE Soft Menu Type | Sets Idle soft menu for each station. – Type1(LOG/DIR/REDIAL) – Type2(LOG/DIR/PICKUP) – Type3(LOG/PICKUP/REDIAL | 0-2 | 0 |
| Prime Number Button (1-48) | Among My-DN and several Sub-DNs which are assigned to station flex buttons, determines the first-seized DN when the user initiates a call. If set, the system scans sequentially from FLEX 1-48 and takes the unused and valid flexible button as prime button. NOTE DN buttons on an associated DSS box cannot be a prime number button. | 1-48 | 1 |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------------|---|--|------------|
| Zone Number (1-9) | Determines the zone where a station belongs. | 1-9 | 1 |
| Automatic Hold | Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP or DSS button. | 0: OFF 1: ON | OFF |
| Enblock Dial Mode | If set to All, user-dialed digits are stored at the Digital Phone until explicitly sent by the user. When sent, all dialed digits are sent to the system in a bloc (only available to Digital Phones with soft keys). | 0: Off 1: All 2: On Hook Dialing 3: Dialing in Ring | Off |
| Intercom Answer Mode | Selects Handsfree, Tone or Privacy ring ICM Signaling mode. | 1: Handsfree 2: Tone 3: Privacy | Tone |
| Data Line Security | Disables override and camp-on tones to the station to avoid encountering an error when sending data. | 0: OFF 1: ON | OFF |
| Sending Progress Indicator | If this value is set to ON, Progress Indicator information is included to Setup message (Origin is non-ISDN, like modem or analogue FAX) | 0: OFF 1: ON | OFF |
| FAX Mode | If this value is set to ON, Bearer Capability information with 3.1 KHz is provided to PX. (If SLT or analogue FAX accesses ISDN, only 3.1 KHz Audio is available) | 0: OFF 1: ON | OFF |
| Emergency Supervisor | If this value is set to ON, Station can use Call Wait/Voice Over/Override feature though busy station is set to Auto Privacy, Voice Over rejection | 0: OFF 1: ON | OFF |
| Mute Ring Service | If this value is set to MUTE RING 1~8, system provides MUTE RING 1~8 to user. If this value is set to NO RING, system does not provide MUTE RING | 1-8:Mute Ring(1-8) 9: No Ring | No Ring |
| Auto Idle Service | If this value is set to AUTO, system provides Auto Idle service. | 0: Auto 1: Manual | Auto |
| Call Wait Indication | When a busy station receive Call Wait request, call wait indication can be provided. (None, Tone, Mute ring) | 0: NONE 1: TONE 2: MUTE RING | MUTE RING |
| ICM Call Duration Time Display | During ICM call, user can check call duration time with this admin. When ICM call, call-time can be displayed on user LCD of digital keyset. | 0: OFF 1: ON | OFF |
| Prepaid Call Cost Display | When prepaid money is used, current cost or left money can be displayed on user LCD of digital keyset. | 0: Left Money 1: Used Money 2: Call Time | Left Money |
| BY-PASS DTMF | Determines if IP Terminal detects DTMF Signal | 0: BY-PASS 1: DETECT | BY-PASS |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------------------|---|--|-----------------|
| Message-Wait Indication | Determines the way to notify a station of wait message. | 0: Not Assigned 1: RING LED 2: MW Remind Tone 3: RING LED + Remind Tone | MW Remind Tone |
| Apply Differential Ring | Determines differential ring mode. | 0: All Ring 1: Normal Ring Only | All Ring |
| Intercom Differential Ring ID (0-168) | Sets the intercom differential ring ID (1-4 usually valid). | LDP: 1-15 Music Bell: 129-168 LIP: 1-8 Etc.: 1-4 | 1 |
| CO Differential Ring ID (0-168) | Sets the CO line differential ring ID (1-4 usually valid). | LDP: 1-15 Music Bell: 129-168 LIP: 1-8 Etc.: 1-4 | 1 |
| COS Apply | Determine whether the applied COS is the COS of SUB-DN or COS if MY-DN when station access SUB-DN. | 0: SUB-DN 1: MY-DN | SUB-DN |
| Hook Flash When Transfer | Determines the operation when the user presses the hook-flash button while transferring a call. 0. Cancel transfer: drops current call and recover previous call. 1. Broker Call: holds current call and recover previous held call. 2. Conference: establishes 3-way conference call. 3. Conference after Broker Call: establishes conference when hook flash within 2 sec in broker call. | 0: Cancel transfer 1: Broker Call 2: Conference 3: Conference after Broker Call | Cancel transfer |
| Off-Hook On Paged | When lifting handset while listening to paging message, user can make another call or continue to listen. 0: continue to listen to paging message. 1: stop listening, seize a DN, and hear dial tone. User can make an another call. | 0: PAGED 1: DIAL TONE | PAGED |
| Preferred Line Answer | Enables Ringing Line Preference for the station. Calls that ring the telephone are answered by going off-hook (Reserved). | 0: OFF 1: ON | ON |
| Pick-Up By DSS Button | This value determines the method of pickup when pressing DSS button. | 0: Disable 1: Group Pickup 2: Direct Pickup | Direct Pickup |
| CTI IP Address | Set the CLI IP Address | IP Address | 0.0.0.0 |
| ACD Agent Priority | When station is member of ACD Group, this value will be used for priority as agent. | 01 – 20 | 10 |
| Intercom Caller Ring ID | When station make intercom call, this ring ID can be provided to called party. | LDP : 1 ~ 15 LDP Music Bell : 129 ~ 168 LIP : 1 ~ 8 | 0 |

1.5.3.3 Flexible Button Assignment – PGM Code 126

Selecting Flex Button Assignment will display the page shown, Figure 1.5.3.3-1.

1. Enter a valid station range.
2. Click **[Load]** to enter Flex button data.

The screenshot shows the 'Station Flex Button Assignment' page in the iPECS-MG web interface. The page has a sidebar with navigation options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', 'Voice Network', 'T-Net Data', 'H.323 Data', 'SIP CO Data', 'SIP Station Data', 'Zone Data', and 'SNMP Data'. The main content area is titled '[Station Flex Button Assignment]' and includes a form for 'Enter Station Range' with a 'Load' button. Below this, a table lists 20 buttons with their assigned types and values. A dropdown menu is open for the 'Type' column of button 9, showing various function options.

| Uncheck All | Button | Type | Value | Ring Option | Access Type |
|-------------------------------------|--------|----------------------|-------|----------------|-----------------|
| <input checked="" type="checkbox"/> | 1 | Directory Number | 100 | Immediate Ring | All Call |
| <input checked="" type="checkbox"/> | 2 | Loop_key | | | User-Changeable |
| <input checked="" type="checkbox"/> | 3 | Loop_key | | | User-Changeable |
| <input checked="" type="checkbox"/> | 4 | CO Number | 1 | | User-Changeable |
| <input checked="" type="checkbox"/> | 5 | CO Group Access | 0 | | User-Changeable |
| <input checked="" type="checkbox"/> | 6 | Station Group Number | 620 | | User-Changeable |
| <input checked="" type="checkbox"/> | 7 | Station DSS | 101 | | User-Changeable |
| <input checked="" type="checkbox"/> | 8 | Not Assigned | | | |
| <input checked="" type="checkbox"/> | 9 | Not Assigned | | | |
| <input checked="" type="checkbox"/> | 10 | Station DSS | | | |
| <input checked="" type="checkbox"/> | 11 | CO Number | | | |
| <input checked="" type="checkbox"/> | 12 | Loop_key | | | |
| <input checked="" type="checkbox"/> | 13 | CO Group Access | | | |
| <input checked="" type="checkbox"/> | 14 | Station Group Number | | | |
| <input checked="" type="checkbox"/> | 15 | Dial Number | | | |
| <input checked="" type="checkbox"/> | 16 | Directory Number | | | |
| <input checked="" type="checkbox"/> | 17 | REDIAL | | | |
| <input checked="" type="checkbox"/> | 18 | SPEED | | | |
| <input checked="" type="checkbox"/> | 19 | CONFERENCE | | | |
| <input checked="" type="checkbox"/> | 20 | MUTE | | | |

Figure 1.5.3.3-1 Flex Buttons Assignment

3. Each Flex button for each station can be assigned to a function (TYPE) as listed.
4. After selecting the Type for a button, enter the value needed.

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------|---|-------|---------|
| Type | Select button type from available choices: Not Assigned Station DSS: assign station DSS button CO Number: assign CO line button Loop key: assign Loop Key CO Group Access: assign CO Group Access Code Station Group Number: assign Station Group Number ACD Group Number: assign ACD Group Number Dial Number: assign feature code or digits Directory Number: assign Directory Number Redial: assign [REDIAL] button Speed: assign [SPEED] button Conference: assign [CONFERENCE] button Mute: assign [MUTE] button Call Back: assign [CALL BK] button DND/FWD: assign [DND/FORWARD] button Transfer: assign [TRANSFER] button Flash: assign [FLASH] button PTT: assign [PTT] button | | |
| Value | Station Number (if button is 'Directory Number' type) or Dial digit (if button is 'Dial digit' type) | | |
| Ring Option | The Ring Option of Directory Number | | |
| Access type | Determines Directory Number access type if button is 'Directory Number' type. 0. All call: there is no restriction. 1. Dial After Seizure: Unable to seize only by off-hook when making outgoing calls even if the button is set to prime number button. First, you must press the button occupies DN. 2. Incoming only: Unable to make an outgoing call using this button and only answering incoming call is allowed. Or, Button Assignment privilege at the station if button is 'Dial Number' type. | | |
| Name | Button Name | | |

1.5.3.4 CTI IP Address Assignment

Selecting CTI IP Address will display the CTI IP Address data input entry page, Figure 1.5.3.4-1. Select the 'Station Order' desired shown above table the header, [1–50], [51–100], [101–150]; the range selected will display.

The screenshot shows the iPECS-MG web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', and 'System Management'. The sidebar menu on the left lists various configuration options, with 'CTI IP Address[N]' currently selected. The main content area is titled '[Station CTI IP Address]' and features a 'Save' button in the top right corner. Below the title, there is a section for 'Station Order' with a list of ranges: [1–50], [51–100], [101–150], [151–200], [201–250], [251–300], and [301–324]. A 'Check All' button is located to the left of the table. The table itself has four columns: 'Order', 'Station Number', 'IP Address', and 'State'. It displays 19 rows of data, with 'Order' ranging from 1 to 19 and 'Station Number' ranging from 1000 to 1018. Each row has a checkbox in the 'Order' column and a text input field for the 'IP Address' (all showing '0.0.0.0'). The 'State' column is empty for all rows.

| Order | Station Number | IP Address | State | |
|--------------------------|----------------|------------|---------|--|
| <input type="checkbox"/> | 1 | 1000 | 0.0.0.0 | |
| <input type="checkbox"/> | 2 | 1001 | 0.0.0.0 | |
| <input type="checkbox"/> | 3 | 1002 | 0.0.0.0 | |
| <input type="checkbox"/> | 4 | 1003 | 0.0.0.0 | |
| <input type="checkbox"/> | 5 | 1004 | 0.0.0.0 | |
| <input type="checkbox"/> | 6 | 1005 | 0.0.0.0 | |
| <input type="checkbox"/> | 7 | 1006 | 0.0.0.0 | |
| <input type="checkbox"/> | 8 | 1007 | 0.0.0.0 | |
| <input type="checkbox"/> | 9 | 1008 | 0.0.0.0 | |
| <input type="checkbox"/> | 10 | 1009 | 0.0.0.0 | |
| <input type="checkbox"/> | 11 | 1010 | 0.0.0.0 | |
| <input type="checkbox"/> | 12 | 1011 | 0.0.0.0 | |
| <input type="checkbox"/> | 13 | 1012 | 0.0.0.0 | |
| <input type="checkbox"/> | 14 | 1013 | 0.0.0.0 | |
| <input type="checkbox"/> | 15 | 1014 | 0.0.0.0 | |
| <input type="checkbox"/> | 16 | 1015 | 0.0.0.0 | |
| <input type="checkbox"/> | 17 | 1016 | 0.0.0.0 | |
| <input type="checkbox"/> | 18 | 1017 | 0.0.0.0 | |
| <input type="checkbox"/> | 19 | 1018 | 0.0.0.0 | |

Figure 1.5.3.4-1 CTI IP Address Assignment

CTI IP Address defines the PC IP Address to be integrated as first party CTI Application.

1.5.4 Station Number Data

Selecting the Station Number Data program group returns the sub-menu displayed, Figure 1.5.4-1.



Figure 1.5.4-1 Station Number Data sub-menu

1.5.4.1 Station DN (Directory Number) Assignment – PGM Code 130

Selecting Station DN Assignment will display the page shown, Figure 1.5.4.1-1.

1. Enter a valid station directory number.
2. Click [Load] to assign DN.

The screenshot shows the iPECS web administration interface. The left sidebar contains a menu with options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', and 'CO Line Data'. The 'Station Number Data' section is expanded, showing 'Station DN Assignment(130)[N]' as the selected option. The main content area is titled '[Station Directory Number Assignment]'. It includes a form to 'Enter Station Directory Number' with a 'Load' button. Below this, the 'Station Directory Number' is set to 100, and the 'Category of DN' is 'My-DN'. The 'Directory Number Type' is set to 'SADN NORMAL'. A table displays the assignment details:

| Station | Flexible Button No. | Ring Option | Access Type | Use DN 100 as Prime-DN |
|---------|---------------------|----------------|-------------|-------------------------------------|
| 100 | 1 | Immediate Ring | All Call | <input checked="" type="checkbox"/> |

Below the table, there is a 'Notice' section explaining the types of DN (SADN-NORMAL, SADN-HOTDESK, MADN) and the category of DN (My-DN, Sub-DN). It also defines Prime-DN as the main number for the station when it has multiple numbers.

Figure 1.5.4.1-1 SADN Assignment

The screenshot shows the iPECS web administration interface. The left sidebar is the same as in Figure 1.5.4.1-1. The main content area is titled '[Station Directory Number Assignment]'. It includes a form to 'Enter Station Directory Number' with a 'Load' button. Below this, the 'Station Directory Number' is set to 449, and the 'Category of DN' is 'Sub-DN'. The 'Directory Number Type' is set to 'MADN'. A table displays the assignment details:

| Index | Station | Flexible Button No. | Ring Option | Access Type | Use DN 449 as Prime-DN |
|-------|---------|---------------------|----------------|-------------|--------------------------|
| 1 | 100 | 10 | Immediate Ring | All Call | <input type="checkbox"/> |
| 2 | 101 | 10 | Immediate Ring | All Call | <input type="checkbox"/> |
| 3 | 102 | 10 | Immediate Ring | All Call | <input type="checkbox"/> |
| 4 | 103 | 10 | Immediate Ring | All Call | <input type="checkbox"/> |
| 5 | | | Immediate Ring | All Call | <input type="checkbox"/> |
| 6 | | | Immediate Ring | All Call | <input type="checkbox"/> |
| 7 | | | Immediate Ring | All Call | <input type="checkbox"/> |
| 8 | | | Immediate Ring | All Call | <input type="checkbox"/> |
| 9 | | | Immediate Ring | All Call | <input type="checkbox"/> |
| 10 | | | Immediate Ring | All Call | <input type="checkbox"/> |

Below the table, there is a 'Notice' section explaining the types of DN (SADN-NORMAL, SADN-HOTDESK, MADN) and the category of DN (My-DN, Sub-DN). It also defines Prime-DN as the main number for the station when it has multiple numbers.

Figure 1.5.4.1-2 MADN Assignment

In accordance with its physical characteristics, the station number is divided into My-DN and Sub-DN. My-DN is Single-Assign Directory Number (SADN) and one My-DN is assigned to a physical terminal only. In the iPECS-MG system, the range of the station numbers used for My-DN is predefined – the station bin index from 1 to 324 for MG-300, from 1 to 120 for MG-100. Station number with station bin index greater than My-DN's bin index is Sub-DN. Sub-DN is used for MADN or SADN. Multi-Assign Directory Number (MADN). When Sub-DN is used for SADN, one Sub-DN can be used only for a station. When Sub-DN is used for MADN, one Sub-DN can be used for 10 different stations. In addition to, Sub-DN, which is used for SADN, can be configured as a hot-desk agent number. If Sub-DN is used as a hot-desk agent, the station is not allocated explicitly for Sub-DN member. Only when a terminal login to Hot Desk with Sub-DN, Sub-DN has the terminal's station number (My-DN) as its member.

Table 1.5.4.1-1 Station DN Assignment

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|---------------------|--|---------|
| Index | The index of DN Member | |
| Station Number | My-DN station number to be assigned as DN member | |
| Flexible Button No. | The button number to assign DN to My-DN station | |
| Ring Option | Ring option for DN | |
| Access Type | Access type of DN 0. All call: there is no restriction. 1. Dial After Seizure: Unable to seize only by off-hook when making outgoing call even if the button is set to prime number button. First, you must press the button occupies DN. 2. Incoming only: Unable to make an outgoing call using this button. Only answering incoming call is allowed. | |
| Use DN as Prime-DN | Select button for assigning the DN as Prime-DN. Prime-DN is a Directory Number that is used when user makes outgoing call without seizure of any DN button. | |

1.5.4.2 Station Directory Number Attributes – PGM Codes 131–135

Selecting Station DN Attributes will display the page shown, Figure 1.5.4.2-1.

1. Enter a valid station range.
2. Click **[Load]** to enter Station DN Attributes data.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar menu is expanded, showing 'Station Number Data' with sub-items like 'Station DN Assignment(130)[N]', 'Station DN Attribute(131~135)[N]', 'Private CO Attribute(136)[N]', 'COS Assignment(137)[N]', 'Auto Dial Attribute(138)[N]', 'Preset Call Forward(142)[N]', 'Call Forward(143)[N]', 'VMIB Attribute(145,147)[N]', 'Mobile Extension Attribute(146)[N]', 'CO/P Group Access(150)[N]', 'Page Group Access(151)[N]', 'Command Group Access(152)[N]', 'Station Name Display[N]', and 'Prepaid Money Input[N]'. The main content area is titled '[Station Directory Number Attribute]'. It includes a form for 'Enter Station Range' with 'Load' and 'Overview' buttons. Below this, it shows 'Station Range From 3000 to 3000'. The table below lists attributes for PGM 131 and PGM 132.

| Order | Check All | Attribute | Value |
|----------------|--------------------------|--|--------------|
| PGM 131 | | | |
| 1 | <input type="checkbox"/> | Station Name | MG |
| 2 | <input type="checkbox"/> | Tenant Group (1-9) | 1 |
| 3 | <input type="checkbox"/> | Digit Conversion Table (1-9) | 1 |
| 4 | <input type="checkbox"/> | Password | |
| 5 | <input type="checkbox"/> | Busy Service | Busy Tone |
| 6 | <input type="checkbox"/> | Charge Mode | REPORT |
| 7 | <input type="checkbox"/> | SMDR Dialed Digit Hidden | DISABLE |
| 8 | <input type="checkbox"/> | Hotdesk Agent Number | OFF |
| 9 | <input type="checkbox"/> | Time Table Index (1-9, empty=not assign) | |
| 10 | <input type="checkbox"/> | R2 Category | 1 |
| 11 | <input type="checkbox"/> | SIP User ID Table (1-72, empty=not assign) | |
| PGM 132 | | | |
| 1 | <input type="checkbox"/> | Forced Handfree Access | DISABLE |
| 2 | <input type="checkbox"/> | Forward Access | ENABLE |
| 3 | <input type="checkbox"/> | Offnet-Forward Access | ENABLE |
| 4 | <input type="checkbox"/> | DND Access | ENABLE |
| 5 | <input type="checkbox"/> | Intrusion Access | ENABLE |
| 6 | <input type="checkbox"/> | Mobile Extension Access | ENABLE |
| 7 | <input type="checkbox"/> | Hook Flash Mode | FLASH-NORMAL |
| 8 | <input type="checkbox"/> | Auto Pickup | DISABLE |
| 9 | <input type="checkbox"/> | Authorization Usage | OFF |

Figure 1.5.4.2-1 Station Directory Number Attributes

Station Directory Number Attributes define features available to the station directory number. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 1.5.4.2-1 for a description of the features and the input required.

Table 1.5.4.2-1 Station Directory Number Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|---|---|-----------|
| Station Name | Enables user name entry. The name is displayed on the LCD of Digital Phones. | Max. 16 Chars | |
| Tenant Group | Specifies tenant group for station. | 1-9(MG-300) 1-5(MG-100) | 1 |
| Digit Conversion Table | Specifies Digit conversion table for station. | 1-9 | 1 |
| Password | Password is employed to control access to the system resources and facilities. Walking COS, CO/IP Group access of DISA callers and certain Call Forward types may require the input of a valid password. | 0-12 digits | |
| Busy Service | When a station is busy and if another new call arrives, station treats this new call base on this option. | 0: Busy Tone 1: Camp-on 2: Call Wait 3: Pilot Hunt | Busy Tone |
| Charge Mode | If 'FREE', the intercom call is not printed/saved to SMDR even though 'ICM CALL' SMDR is enabled. If 'REPORT', the intercom call is included to SMDR according to the ICM CALL SMDR Attributes. | 0: Free 1: Report | Report |
| SMDR Dialed Digit Hidden | If enabled and station makes an outgoing call, then dialed digit in SMDR data can be shown with hidden digit rule by SMDR attribute. If disabled, all dialed digits will be displayed. | 0: Disable 1: Enable | Disable |
| Hot Desk Agent Number | Permits a station number as Hot Desk agent number. To make this feature effective, station number must be Sub-DN & SADN. | 0: OFF 1: ON | OFF |
| Time Table Index | Specify Time Table index for station. | 1-9, None | None |
| R2 Category | Set R2 category for the station. | 1-15 | 1 |
| SIP User ID Table | SIP User table index for SIP outgoing call's caller ID information. If none, then iPECS-MG system makes caller ID based on SIP CO User-ID Table index value in 'User ID Start Index' in PGM 371. If 01~72, then programmed ID in SIP CO User-ID Table (PGM code – 373) is used. | 1~72 (MG-300) 1~24 (MG-100) | none |
| Forced Handsfree Access | When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or Hands free answer to Tone Ring mode. | 0: Disable 1: Enable | Disable |
| Forward Access | Enables Call Forward to be activated by the station. | 0: Disable 1: Enable | Enable |
| Offnet-Forward Access | A station must be allowed Off Net Fwd to forward external incoming calls outside the system or establish other CO-to-CO connection. | 0: Disable 1: Enable | Enable |
| DND Access | Enables DND to be activated by the station. | 0: Disable 1: Enable | Enable |
| Intrusion Access | Enables intrusion to gain access to an active call. | 0: Disable 1: Enable | Disable |
| Mobile Extension Access | Enables mobile extension ability. | 0: Disable 1: Enable | Enable |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|---|--|--------------|
| Hook Flash Mode | Determines the operation when the SLT user presses the hook-flash button during a conversation. 0. FLASH NORMAL: Hook Flash can be detected. In addition, it will be operated as normal case flow. 1. FLASH IGNORE: Hook Flash cannot be detected. All of hook flash will be ignored at any time. 2. FLASH DROP: When Hook Flash is detected, the line will be disconnected. 3. HOLD RELEASE: When Hook Flash is detected, the line will be held and then On-Hook is detected, the line will be disconnected. | 0. FLASH NORMAL 1. FLASH IGNORE 2. FLASH DROP 3. HOLD RELEASE | FLASH NORMAL |
| Auto Pickup | If a group member phone is ringing, another member of the Group can Pick-Up a call ringing at the member station by simply going "Off-hook". | 0: Disable 1: Enable | Disable |
| Authorization Usage | If this value is set to 1, 2, or 3, a user should enter the authorization code for some specific cases as below. - OFF - Disable - CO Access Only - Only when a user accesses CO line, system requests authorization code(station number + password, or * + ID + Password) - Authorization Table – User dials digits in authorization table, system requests authorization code(station number + password, or * + ID + Password) - CO Access, Authorization Table - When a user accesses CO line or user dials digits in authorization table, system requests authorization code(station number + password, or * + ID + Password) | 0: Off 1: CO Access 2: Authorization Table 3: CO, Authorization Table | OFF |
| Forward If OOS (Switched-off DECT) | | 0:Off 1:ON | OFF |
| Barge-In Access | | 0: Disable 1: Enable | Disable |
| CO Queue Access | Enables CO Queuing. | 0: Disable 1: Enable | Enable |
| Conference Access | Enables Conference call. | 0: Disable 1: Enable | Enable |
| Wake-up Access | Enables Wake-up Alarm feature. | 0: Disable 1: Enable | Enable |
| Station Call Back Access | Enables call back feature when a called station is busy. | 0: Disable 1: Enable | Enable |
| ACNR Access | Enables ACNR feature. | 0: Disable 1: Enable | Enable |
| Absence Notice Access | Enables Absence notice feature. | 0: Disable 1: Enable | Enable |
| Call Wait Access | Enables to leave a call wait when a called station does not answer or is in DND state. | 0: Disable 1: Enable | Enable |
| Camp-on Access | Enables camp-on feature. | 0: Disable 1: Enable | Enable |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|--|---|----------|
| Voice Over Access | Enables voice over feature. | 0: Disable 1: Enable | Disable |
| Rejection of Voice Over | Enable of rejection authority about voice over feature. | 0: Disable 1: Enable | Disable |
| Prepaid Call Usage | Enables prepaid call. | 0: Disable 1: Enable | Disable |
| Keypad Facility Usage | Enable keypad facility. | 0: Disable 1: Enable | Disable |
| CO to CO Transfer | Enable Transfer CO call to other CO. | 0: Disable 1: Enable | Disable |
| Speed Access | Enables station speed dial bin access authority. | 0: Disable 1: Enable | Enable |
| Page Access | Permits station to make page. | 0: Disable 1: Enable | Enable |
| Meet-Me Access | Enables 'meet me' feature when there is a page made. | 0: Disable 1: Enable | Enable |
| Call Duration Restriction Table | CDR Table number for Reference to check the CDR rule. If table number is assigned, when user make call, defined CDR rule will be applied. | 00:Not-Used 01-30 | Not-Used |
| CO Call Duration Restrict | Restricts CO Call Duration to station. | 0: Disable 1: Enable | Disable |
| SLT Block Back Call | If this enabled, when SLT extension attempts to transfer a CO call to a CO line it is blocked and the call is released. | 0: Disable 1: Enable | Disable |
| Pilot Hunt Ring | Permits station to receive pilot hunt ring. | 0: Disable 1: Enable | Enable |
| ACR User | Sets Anonymous Call Restrict service. | 0: OFF 1: ON | OFF |
| Wake-Up Time (1-5) | You can assign five different wake-up settings with each mode. There are five types of wake-up mode. 1. Once 2. Daily 3. Monday – Friday 4. Monday – Saturday 5. Specific Date/Time | HH: MM | |
| Branch Line/Branch Line Mode | Enables branch line feature. Branch: Press the {DN} button used, the conference call is established. Bridge by pressing DN: Press the {DN} button used, bridge call is connected. Auto Bridge if Phontage/UCS Client's IP Bridge is enabled (softphone): If Phontage or UC client's IP is enabled, the bridge will be made automatically. | 0: OFF 1: Branch 2: Bridge by pressing DN. 3: Auto Bridge if Phontage/UCS Client's IP Bridge is enabled. | OFF |
| Auto Privacy | Enables auto privacy feature (to restrict the intrusion/call-wait/camp-on/OHVA at a busy station). | 0: OFF 1: ON | OFF |
| DID/DISA Restriction | If set, incoming DID and DISA calls to DN are restricted. | 0: OFF 1: ON | OFF |
| DID/DISA Restriction LCD Display | If set, when DID/DISA Restriction is enabled, LCD shows this information. | 0: OFF 1: ON | ON |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|--|---|---------------|
| CLIP Display | CLIP (Calling Line Identification Presentation), an ISDN service, sends the number of the calling party to the system in the call SETUP message. If enabled, the number will be shown in the Digital phone LCD. | 0: DISABLE 1: ENABLE | ENABLE |
| COLP Display | COLP (Connected Line Id Presentation), an ISDN service, sends the number of the answering party to the system in the call CONNECT message. If enabled, the number will be shown in the Digital Phone LCD. | 0: DISABLE 1: ENABLE | ENABLE |
| CLI/Redirect | When an incoming ISDN call is redirected, the call SETUP message will contain an original and redirected CLI. This selection determines if the Digital Phone will display the original or redirected CLI number. | 0: Original CLI 1: Redirect CLI | Original CLI |
| CLIR When Outgoing | CLIR (Calling Line Identification Restriction), an ISDN service, removes calling party ID sent from the PSTN to the called party with a RESTRICT instruction in the SETUP message. If enabled, the system will send RESTRICT instruction to the PSTN when an outgoing ISDN call is placed. | 0: DISABLE 1: ENABLE | DISABLE |
| COLR When Incoming Answer | COLR (Connected Line Id Restriction), an ISDN service, removes connected party ID sent from the PSTN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled, the system will send the restrict instruction to the PSTN when the station answers an ISDN call. | 0: DISABLE 1: ENABLE | DISABLE |
| CLI Number | When not restricted (by using CLIR/COLR above), entry configured is added to the number sent in the ISDN call SETUP or CONNECT message in place of the station number. | 24 digits | |
| Call Forward CLI/Redirect | When an incoming ISDN call is forwarded to other ISDN CO, the call SETUP message will contain an original and redirected CLI. This selection determines if SETUP includes the original or redirected CLI number. | 0: Original CLI 1: Redirect CLI | Original CLI |
| Ignore Caller's CLIR option | If it is enabled, when a call with CLIR option is received, option will be ignored and CLI will be displayed. | 0: DISABLE 1: ENABLE | DISABLE |
| Mobile Extension CLI | When mobile extension makes a call, CLI is determined by this option. 0: Caller Number 1: Mobile Station Number 2: (Caller + Mobile Station) Number | 0: Caller Number 1: Mobile Station Number 2: (Caller+Mobile Station) Number | Caller Number |
| Long CLI 1 / SIP UID 1 | If CLI type of outgoing CO line is set to 1, (Long CLI 1), Long CLI 1 is sent. | 24 digits | |
| Long CLI 2 / SIP UID 2 | If CLI type of outgoing CO line is set to 2, (Long CLI 2), Long CLI 2 is sent. | 24 digits | |
| Long CLI 3 / SIP UID 3 | If CLI type of outgoing CO line is set to 3, (Long CLI 3), Long CLI 3 is sent. | 24 digits | |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|--|------------|
| CLI Name Display | <p>This feature determines whether to display the CLI name.</p> <p>If this is set to CLI Name, Name matched with CLI will be displayed</p> <p>Following name will be searched and display if programmed.</p> <ol style="list-style-type: none"> 1. Flexible button label name with this CLI number. 2. Station Speed Bin Name. 3. System Speed Bin Name. 4. Received CLI Name. <p>If this is set to CLI(DID) Name, DID name will be displayed</p> | <p>0: DISABLE</p> <p>1: CLI Name</p> <p>2: CLI(DID) Name</p> | DISABLE |
| Station No. Hidden | <p>If this is set to ON, station number is not displayed at calling or called party LCD.</p> <p>.</p> | <p>0: OFF</p> <p>1: ON</p> | OFF |
| Call Transfer CLI | <p>When a station makes transfer call, call SETUP message will contain a transferor or transferred CLI.</p> <p>This feature determines which CLI will be used.</p> | <p>0: Transferor</p> <p>1: Transferred</p> | Transferor |
| Use CLI from S0 | <p>When S0 makes outgoing CO call, the CLI of the call is determined by this option.</p> | <p>0:OFF</p> <p>1:ON</p> | OFF |

1.5.4.3 Station Private CO Group Attributes – PGM Code 136

Selecting Private CO Group Attributes will display the page shown, Figure 1.5.4.3-1.

1. Enter a valid station range.
2. Click **[Load]** button to enter the Station Private CO Group data.

The screenshot displays the iPECS web administration interface. On the left, a sidebar menu shows various configuration options under 'Station Number Data', with 'Private CO Attribute(136)[N]' highlighted. The main content area is titled '[Station Private CO Attribute]'. It includes a form to 'Enter Station Range' (set to 3000 to 3000) with 'Load' and 'Overview' buttons. Below this, a table lists attributes for two private CO groups. The 'Private CO Usage' dropdown is set to 'Off'. The table columns are 'Private CO Group', 'CO Group Access Code', 'CO Line 1', 'CO Line 2', and 'CO Line 3'.

| Private CO Group | CO Group Access Code | CO Line 1 | CO Line 2 | CO Line 3 |
|------------------|----------------------|-----------|-----------|-----------|
| 1 | | | | |
| 2 | | | | |

Figure 1.5.4.3-1 Station Private CO Attributes

Station Private CO Group Attributes defines CO group code and a private CO line for private CO group of each station.

Table 1.5.4.3-1 Station Private CO Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--|---|---|---------|
| Private CO Usage | Determines seize mode 0. OFF: Disable Private CO Group operation. 1. Private CO: if all private CO line is busy, a user hears busy tone. 2. Private &Normal: if all private CO line is busy, a system seizes normal CO line related to CO Group access code. 3. Normal &Private: if all CO line in CO Group is busy, a system seizes private CO line. | 0-2 0: OFF 1:Private CO 2: Private & Normal 3: Normal & Private | OFF |
| Private CO Group 1 CO Group Access Code | Determines CO group access code for Private CO Group 1. | Max 8 digits | |
| Private CO Group 1 1 st ~5 th CO line | Determines 1 st ~5 th CO line number for Private CO group1. | 001-240 (MG300) 01-80(MG-100) | |
| Private CO Group 2 CO Group Access Code | Determines CO group access code for Private CO Group 2. | Max 8 digits | |
| Private CO Group 2 1 st ~5 th CO line | Determines 1 st ~5 th CO line number for Private CO group2. | 001-240 (MG300) 01-80(MG-100) | |

1.5.4.4 Station COS Assignment – PGM Code 137

Selecting COS Assignment will display the page shown, Figure 1.5.4.4-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station COS data.

iPECS-MG/TS6M-A.0M OCT/09
Boot Version-1.0M AUG/09

Find PGM

Hide Menu

Pre-Programmed Data

Numbering Plan

Station Port Data

Station Number Data

Station DN Assignment(130)[N]

Station DN Attribute(131~135)[N]

COS Assignment(137)[N]

Auto Dial Attribute(138)[N]

Preset Call Forward(142)[N]

Call Forward(143)[N]

VMIB Attribute(145)[N]

Mobile Extension Attribute(146)[N]

CO/IP Group Access(150)[N]

Page Group Access(151)[N]

Command Group Access(152)[N]

CO Line Data

Station Group Data

System Data

Table Data

Tenant Data

Board Data

Voice Network

[Station COS Assignment]

Enter Station Range : - Load Overview Save

Station Range From 100 to 100

| Order | Check All | Attribute | Value | Range |
|-------|--------------------------|-----------|----------------------|---|
| 1 | <input type="checkbox"/> | Day COS | <input type="text"/> | 0-15 |
| 2 | <input type="checkbox"/> | Night COS | <input type="text"/> | 0 : Intercom, Emergency Call 1 : No restrictions |
| 3 | <input type="checkbox"/> | Timed COS | <input type="text"/> | 2~15 : Allow, Deny of Toll Exception Table[PGM 250] |

Figure 1.5.4.4-1 Station COS Assignment

All stations are assigned to a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls. Separate COS assignments are configured for Day, Night and Timed Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions.

Table 1.5.4.4-1 Station Class-Of-Service

| STATION COS | RESTRICTIONS |
|-------------|--|
| 0 | Intercom and Emergency number calls are allowed. Incoming and transferred calls are allowed. |
| 1 | No restrictions are placed on dialing. |
| 2-15 | Configured toll exception tables for these COS are monitored for allow and deny numbers. <ul style="list-style-type: none">– If a table has no entries, no restrictions are applied.– If there are only Deny entries, restrictions are provided as Deny only.– If there are only Allow entries, restrictions are provided as Allow only.– If there are both Allow and Deny entries, the Deny entries are searched. If the dialed number matches a Deny entry, the call is restricted; if no match is found the call is allowed. |

1.5.4.5 Station Auto Dial Attribute – PGM Code 138

Selecting Auto Dial Attribute will display the Station page shown, Figure 1.5.4.5-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Auto Dial Attribute.

The screenshot displays the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and a 'Log Out' button. The left sidebar shows a menu with 'Station Number Data' selected, and 'Auto Dial Attribute(138) [N]' highlighted. The main content area is titled '[Station Auto Dial Attribute]' and contains a form with 'Enter Station Range' fields, a 'Load' button, and a 'Save' button. Below the form, a table lists the attributes for the Station Auto Dial Attribute.

| Check All | Attribute | Value |
|--------------------------|---------------------------------|--------------------------------|
| <input type="checkbox"/> | Auto Dial Digit (Max 16 Digits) | <input type="text"/> |
| <input type="checkbox"/> | Auto Dial Pause Time (0~30)*sec | <input type="text" value="0"/> |
| <input type="checkbox"/> | Auto Dial Mode | Always On |

Figure 1.5.4.5-1 Station Auto Dial Attribute

When a station goes off-hook (lifts handset or presses **[Speaker]** button), the system normally provides an intercom dial tone. In place of the dial tone, the station can be programmed to dial preprogrammed Auto-Dial Digit. If Auto Dial Digits is configured and if no digit is entered within the 'auto dial pause time after off-hook,' the system will dial the digits in 'Auto Dial Digit' automatically.

Table 1.5.4.5-1 Station Auto Dial Attribute

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|----------------------|--|-----------|
| Auto Dial Digit | Digits will be dialed automatically Max 16 digits | |
| Auto Dial Pause Time | Auto dial pause time (0~30 Sec.) | 0 |
| Auto Dial Mode | Determines the Mode for Auto Dial -. Always On : Auto dial mode can be always operated. -. On(Except Transfer) : Auto dial mode is not operated during transfer. | Always On |

1.5.4.6 Preset Call Forward – PGM Code 142

Selecting Preset Call Forward will display the page shown, Figure 1.5.4.6-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Preset Call Forward data.

The screenshot shows the iPECS Web Administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The sidebar on the left lists various configuration options under 'Station Number Data', with 'Preset Call Forward(142)[N]' selected. The main content area is titled '[Preset Call Forward]' and contains a form for entering station ranges and a table of call forward types.

Enter Station Range : -

Station Range From 2000 to 2000

| Uncheck All | Call Forward Type | Destination Number (Max 32 Digits) |
|-------------------------------------|------------------------|------------------------------------|
| <input checked="" type="checkbox"/> | Internal Unconditional | <input type="text"/> |
| <input checked="" type="checkbox"/> | Internal Busy | <input type="text"/> |
| <input checked="" type="checkbox"/> | Internal No-Answer | <input type="text"/> |
| <input checked="" type="checkbox"/> | Internal DND | <input type="text"/> |
| <input checked="" type="checkbox"/> | External Unconditional | <input type="text"/> |
| <input checked="" type="checkbox"/> | External Busy | <input type="text"/> |
| <input checked="" type="checkbox"/> | External No-Answer | <input type="text"/> |
| <input checked="" type="checkbox"/> | External DND | <input type="text"/> |
| <input checked="" type="checkbox"/> | ON Failure(Eject) | <input type="text"/> |

Figure 1.5.4.6-1 Preset Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset station or station group. This allows an external call or internal call to initially ring at a station and forward to a pre-determined destination. Preset Forward can be separately assigned Internal Unconditional, Internal Busy, Internal No Answer, Internal DND, External Unconditional, External Busy, External No Answer, External DND or ON Failure (Eject) preset forwarding to any station, station group or external number. As a default, no Preset Call Forward is assigned.

1.5.4.7 Call Forward – PGM Code 143

Selecting Call Forward will display the page shown, Figure 1.5.4.7-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Call Forward data.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar lists various configuration options, with 'Station Number Data' expanded to show 'Call Forward(143) [N]'. The main content area is titled '[Station Call Forward]' and contains a form for entering station range and a table of attributes.

Enter Station Range : - **Load** **Overview** **Save**

Station Range From 3000 to 3000

| Order | Check All | Attribute | Value |
|-------|--------------------------|--------------------------------|--------------|
| 1 | <input type="checkbox"/> | Forward Type | NOT ASSIGNED |
| 2 | <input type="checkbox"/> | Forward Number (Max 32 Digits) | 91200 |
| 3 | <input type="checkbox"/> | Forward Apply Time | ALL |
| 4 | <input type="checkbox"/> | CFW No-Answer Timer (0~600) | 15 (*sec) |
| 5 | <input type="checkbox"/> | Forward Information Display | ON |
| 6 | <input type="checkbox"/> | Forward Apply Condition | All |

Figure 1.5.4.7-1 Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a station, station group or external number.

Table 1.5.4.7-1 Station Call Forward

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|--|--|--------------|
| Forward Type | Specify call forward type. | 0: Not Assigned 1: Unconditional 2: Busy 3: No Answer 4: Busy or No Answer | Not Assigned |
| Forward Number | Specify Call Forward Destination by entering dial digits. | Max. 32 digits | - |
| Forward Apply Time | Specify Call Forward Applying Time. | 0: All / 1: Day 2: Night / 3: Timed | ALL |
| CFW No-Answer Timer | Call is forwarded to 'Call Forward Destination,' if station does not respond during this 'CFW NO ANS TMR' timer. | 0-600 sec | 15 |
| Forward Information Display | Enables Forward Information Display Option to display forward information during idle state. | 0: OFF 1: ON | ON |
| Forward Apply Condition | Specify Call Forward Condition | 0 : All 1 : Internal 2: External | All |

1.5.4.8 VMIB Attribute – PGM Code 145, 147

Selecting VMIB Attribute will display the page shown, Figure 1.5.4.8-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station VMIB Attribute Data.

The screenshot shows the iPECS Web Administration interface. The left sidebar contains a navigation menu with the following items: Pre-Programmed Data, Numbering Plan, Station Port Data, Station Number Data (selected), Station DN Assignment(130)[N], Station DN Attribute(131-135)[N], COS Assignment(137)[N], Auto Dial Attribute(138)[N], Preset Call Forward(142)[N], Call Forward(143)[N], VMIB Attribute(145,147)[N] (highlighted), Mobile Extension Attribute(146)[N], CO/IP Group Access(150)[N], Page Group Access(151)[N], Command Group Access(152)[N], CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, SIP Station Data, Zone Data, SNMP Data, DECT Data, Green Mode, Hotel Data, and Initialization.

The main content area displays the VMIB Attribute configuration page. At the top, there is a header bar with 'Administration', 'S/W Upgrade', and 'System Management' tabs. Below the header, there is a 'Log Out' button. The page title is 'Station Number Data'. The main content area is divided into two sections: 'PGM 145' and 'PGM 147'. Each section contains a table of attributes with columns for 'Order', 'Attribute', and 'Value'. The 'PGM 145' section has 24 attributes, and the 'PGM 147' section has 1 attribute. The 'Value' column contains dropdown menus and text input fields.

| Order | Attribute | Value |
|----------------|--|---------------|
| PGM 145 | | |
| 1 | VMIB Access | ENABLE |
| 2 | Prompt Language Index | FIRST |
| 3 | Auto-Record Service | DISABLE |
| 4 | Two-Way Record Access | DISABLE |
| 5 | Two-Way Recording Destination (If not assigned : Destination is Internal VMIB) | |
| 6 | VM MSG Backup Phontage Number | |
| 7 | VM MSG Backup Delete Option | DISABLE |
| 8 | VMIB Message Retrieve Type | LIFO |
| 9 | VMIB Urgent Message No | 000 |
| 10 | VMIB New Message No | 000 |
| 11 | VMIB Saved Message No | 000 |
| 12 | DND Forward to VMIB | DISABLE |
| 13 | Company Directory - First Name | |
| 14 | Company Directory - Last Name | |
| 15 | Administrator MailBox | DISABLE |
| 16 | Announce only MailBox | DISABLE |
| 17 | Announce only Option | Previous Menu |
| 18 | Cascade MailBox | |
| 19 | Cascade Type | Off |
| 20 | VM COS | 1 |
| 21 | Outcall Notification | OFF |
| 22 | Outcall Attempts | 3 |
| 23 | Outcall Interval (01-60) | 3 +1min |
| 24 | Outcall Phone Number | |
| | VM MSG - SMTP Mail Server Address | |
| | VM MSG - User Mail Address | |
| | VM MSG - SMTP Mail Server ID | |
| | VM MSG - SMTP Mail Server Password | |
| | VM MSG - SMTP Mail Sender Address | |
| | VM MSG - Attach Message | Off |
| PGM 147 | | |
| 1 | VM Forward Reroute Destination | |

Figure 1.5.4.8-1 VMIB Attribute

Station VMIB Attributes define VMIB features available to the station directory number.

Table 1.5.4.8-1 Station VMIB Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|---|--|-----------------------------|
| VMIB Access | Permits station access to VMIB. | 0: Disable 1: Enable | Disable |
| Prompt Language Index | Selected language type prompt is played to the user when accessing the VMIB. | 0: First 1: Second 2: Third | First |
| Auto-Record Service | When allowed, if user is in conversation with internal/external users, their conversation will be automatically recorded. It can be used without two-way record button. | 0: Disable 1: Enable | Disable |
| Two-Way Record Access | When allowed, the station can activate the Two-way record feature to record a conversation. | 0: Disable 1: Enable | Disable |
| Two-Way Recording Destination | It defines the location of Two-Way recorded wav files. When VM Boards, recorded wav files are saved at internal VM boards. In addition, if assign specific Phontage and this Phontage is supportable s/w version (Deluxe version), recorded wav files is saved at hard disk of Phontage program installed PC. | Empty Digits | Empty (VM Internal Boards). |
| VM Message Backup Phontage Number | When station has new voice mail in VM internal boards, this information is reported to the assigned Phontage number. In addition, Phontage user can backup these saved voice mail from VM internal boards to hard disk of Phontage program installed PC. | | |
| VM Message Backup Delete Option | When it is enabled, Phontage user can delete all voice mail in VM internal boards. | 0: Disable 1: Enable | Disable |
| VMIB Message Retrieve Type | Messages stored in the VMIB may be retrieved in either a FIFO (first-in-first-out) or LIFO (last-in-first-out) order based on this entry. | 0: LIFO 1: FIFO | LIFO |
| VMIB Urgent Message No | Display the number of urgent messages. | 0 ~ 250 | 0 |
| VMIB New Message No | Displays the number of new messages. | 0 ~ 250 | 0 |
| VMIB Saved Message No | Displays the number of saved messages. | 0 ~ 250 | 0 |
| Company Directory - First Name | First name of the user can be programmed for the name search in company directory feature. | Max 12 | |
| Company Directory - Last Name | Last name of the user can be programmed for the name search in company directory feature. | Max 12 | |
| Administrator Mail Box | Administrator features for voice mail can be allowed or disallowed for the user. | 0:DISABLE 1:ENABLE | DISABLE |
| Announce only Mail Box | If enabled and station is forwarded to voice mail, only the station greeting is played without recording. | 0:DISABLE 1:ENABLE | DISABLE |
| Announce only Option | After accessing announce-only mailbox, the call can be routed back to CCR previous menu or hunged up. | 0:Previous Menu 1: Hang up | Previous Menu |
| Cascade Mail Box | If the station receives a voice message, it is copied to the cascade mailbox automatically. | Max 8 | |
| Cascade Type | The voice message cascade feature can be disabled, or performed immediately when voice message is left, or only when outcall notification fails, or only for urgent messages. | 0: Off 1: Immediate 2: Noti. Fail 3: Urgent | 0: Off |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|---|--|---------------------|
| VM COS | The class of service for voice mail features | 1 - 5 | 1 |
| Outcall Notification | When a voice message is left to a station, it can be notified to an outside telephone. | 0: OFF 1: ON | OFF |
| Outcall Attempts | The number of attempts for outcall notification can be set here | 1 - 9 | 3 |
| Outcall Interval | Between each retrial of outcall notification, the interval can be set here | 01 – 60 (minutes) | 03 |
| Outcall Phone Number | The telephone number for voice message notification can be set here including trunk access code | | |
| VM MSG - SMTP Mail Server Address | SMTP Mail Server Address | IP address | - |
| VM MSG - User Mail Address | User Mail Address that will receive the e-mail. | IP address | - |
| VM MSG - SMTP Mail Server ID | SMTP Mail Server ID | Max. 20 | - |
| VM MSG – SMTP Mail Server Password | SMTP Mail Server Password | Max. 20 | - |
| VM MGS – SMTP Mail Sender Address | Sender Mail Address that will be put in the sender's address field in the e-mail. | Max. 48 | - |
| VM MSG – Attach Message | This provides 3 options: Do not attach message in e-mail Attach message only Attach message and delete it from board | 0: Off 1: Attach only 2: Attach & Delete | Off |
| VM Forward Reroute Destination | When Rerouting from Voice Mail Forward function is used, this destination is used. | 8 digits | |
| Message Date/Time Prompt | When user voice message is checked, this determines the period to play time/date prompt | 0: Before Msg 1: After Msg 2: Off | Before Msg |
| SMTP Port Number (0000~9999) | Each DN can have its own SMTP port number for VM E-mail notification. | 0000-9999 | 0025 |
| VM Slot No(01-18) | If VM Slot No is assigned for a DN, all voicemail messages for the DN will be stored at that board. | 01-18 | Not Assigned |
| VM Password Input | Password input method to access voice mailbox. | 1:Extension+ Password 2:Password 3:No Password | Extension+ Password |
| Msg RW/FF Time(03~99) | This specifies the unit amount of time when user message is rewound or fast forwarded during play-back. | 03-99 | 03 |
| VM Message Number Display | If enabled, VM message number will be displayed when users enter mailbox by [CALL BACK] button. | 0: OFF 1: ON | ON |

1.5.4.9 Mobile Phone Attribute – PGM Code 146

Selecting Mobile Phone Attribute will display the page shown, Figure 1.5.4.9-1. Enter a valid station range and click **[Load]** to enter the Station Mobile Phone Attribute Data.

Figure 1.5.4.9-1 Mobile Phone Attribute

A mobile phone can be used in conjunction with a station. The Mobile phone can access system resources available to the user's wired phone and will receive ringing for incoming calls. The user may be allowed to enable the Mobile extension and define the mobile number.

Table 1.5.4.9-1 Mobile Phone Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|---|------------------------------------|----------|
| EXT. ID | Mobile phone index | | |
| Mobile enable | Enable mobile extension ability. | 0: OFF 1: ON | OFF |
| Number | Mobile extension number | Max. 24 digits | - |
| CLI | Mobile extension CLI number | Max. 24 digits | - |
| Mobile Service Mode | Select apply mobile service to ALL call or CLI1-CLI5. 0: ALL call – Enable Mobile extension service for all call. 1: Service CLI only – Enable Mobile extension service for only Mobile extension CLI number (CLI1~CLI5). | 0: ALL Call 1: Service CLI only | ALL Call |
| Mobile Service CLI (1-5) | CLI for Mobile Service | | |

1.5.4.10 CO/IP Group Access – PGM Code 150

Selecting CO/IP Group Access will display the page shown, Figure 1.5.4.10-1.

1. Enter a valid station range.
2. Click **[Load]** to enter CO/IP Group Access data.
3. Check the appropriate boxes to allow or delete access to each CO/IP Group.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The sidebar menu on the left lists various configuration options, with 'CO/IP Group Access(150)[N]' highlighted. The main content area is titled '[CO/IP Group Access]' and contains a form for entering a station range (100 to 100) and a table of CO/IP Groups. The table has three columns: 'Check All', 'CO/IP Group', and 'Select All'. The 'Select All' column for Group 1 is checked.

| Check All | CO/IP Group | Select All |
|--------------------------|-------------|-------------------------------------|
| <input type="checkbox"/> | Group 1 | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | Group 2 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 3 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 4 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 5 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 6 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 7 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 8 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 9 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 10 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 11 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 12 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 13 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 14 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 15 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 16 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 17 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 18 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 19 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 20 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 21 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 22 | <input type="checkbox"/> |
| <input type="checkbox"/> | Group 23 | <input type="checkbox"/> |

Figure 1.5.4.10-1 CO/IP Group Access

Stations can be allowed or denied access to CO Lines and IP Channels by group. As a default, all stations are allowed access to group 1.

1.5.4.11 Internal Page Group Access – PGM Code 151

Selecting Internal Page Group Access will display the page shown, Figure 1.5.4.11-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Internal Page Group Access data.
3. Check the appropriate boxes to allow or delete access to each Internal Group Zone.

The screenshot shows the iPECS Web Administration interface. The sidebar menu on the left includes options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data' (selected), 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', and 'Board Data'. The main content area is titled '[Internal Page Group Access]'. It features a 'Load' button and a 'Save' button. Below the buttons is a table with 23 rows, each representing an 'Internal Page Zone'. Each row has a 'Check All' checkbox, a 'Select All' checkbox, and a 'Load' button. The table is titled 'Station Range From 100 to 100'.

| Check All | Internal Page Access | Select All |
|--------------------------|-----------------------|--------------------------|
| <input type="checkbox"/> | Internal Page Zone 1 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 2 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 3 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 4 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 5 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 6 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 7 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 8 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 9 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 10 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 11 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 12 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 13 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 14 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 15 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 16 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 17 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 18 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 19 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 20 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 21 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 22 | <input type="checkbox"/> |
| <input type="checkbox"/> | Internal Page Zone 23 | <input type="checkbox"/> |

Figure 1.5.4.11-1 Internal Page Group Access

Each station is assigned for making announcements to each Internal Page Group.

1.5.4.12 Command Conference Group Access – PGM Code 152

Selecting Command Conference Group Access will display the page shown, Figure 1.5.4.12-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Command Conference Group Access data.
3. Check the appropriate boxes to allow or delete access to each Command Conference Group.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar menu is expanded, showing 'Station Number Data' selected. The main content area is titled '[Command Conference Group Access]'. It features a form with 'Enter Station Range : [] - []' and a 'Load' button. Below the form, it says 'Station Range From 100 to 100'. A table with 3 columns: 'Check All', 'Command Group', and 'Select All' is displayed. The table lists 10 command groups, each with a checkbox in the 'Check All' column and a checkbox in the 'Select All' column.

| Check All | Command Group | Select All |
|--------------------------|------------------|--------------------------|
| <input type="checkbox"/> | Command Group 1 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 2 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 3 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 4 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 5 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 6 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 7 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 8 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 9 | <input type="checkbox"/> |
| <input type="checkbox"/> | Command Group 10 | <input type="checkbox"/> |

Figure 1.5.4.12-1 Command Conference Group Access

Stations can be allowed or denied access to Command Conference Group. If a station has command conference group access, the user can make a command conference group call (if command conference group members are assigned). As a default, all stations are denied to access to all groups.

1.5.5 CO Line Data

Selecting the CO Line Data program group returns the sub-menu displayed, Figure 1.5.5-1.



Figure 1.5.5-1 CO Line Data

1.5.5.1 CO Line Attribute – PGM Codes 160–163

Selecting CO Line Attributes will display the page shown, Figure 1.5.5.1-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

The screenshot shows the iPECS Web Administration interface. The left sidebar contains a menu with options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', and 'CO Line Data'. The 'CO Line Data' section is expanded, showing a list of attributes for PGM 160 and PGM 161. The main area displays a table for these attributes. The table has columns for 'Order', 'Check All', 'Attribute', and 'Value'. The attributes listed are: CO Line Type, Service Type, Outgoing Group No, Incoming Group No, Tenant Number, Digit Conversion Table, Signal Type, Release Timing, Incoming/Outgoing Mode, Dialing Type, Charge Mode, and Metering Usage. The values are set for PGM 160 and PGM 161.

Figure 1.5.5.1-1 CO Line Attribute

CO Attributes define various characteristics of CO lines.

Table 1.5.5.1-1 CO LINE ATTRIBUTES

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------|--|--|---------|
| CO Type | Displays the line type of selected CO line. | Display only | - |
| Service Type | Sets CO line type as DID or Normal. | 0: Normal 1: DID | Normal |
| Outgoing Group No | Sets CO Group Number to apply to outgoing calls. If deleted, the selected CO couldn't be used. | 01–72, None(MG-300) 01–24, None(MG-100) | 01 |
| Incoming Group No | Sets CO Group Number to apply to incoming calls. | 01–72, None(MG-300) 01–24, None(MG-100) | 01 |
| Tenant No | Sets Tenant group number to apply to CO lines. | 1-9(MG-300) 1-5(MG-100) | 1 |
| Digit Conversion Table | Sets Digit Conversion Table index. Can set the destination for each DID number using Digit Conversion Table. | 1-9 | 1 |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------|--|--|-----------------|
| Signal Type | Sets Answer Signal Type. | 0: No Signal 1: Send Wink(IC) 2: Wait Seize Ack(OG) 3: Send Wink & Wait Sz Ack 4: Send & Wait Sub-Answer 5: Send Wink & Send Sub-Answer(IC) 6: Wait Ack & Send Sub-Answer(OG) 7: Send All & Wait All | No Signal |
| Release Timing | If Release Timing is set to first release, CO line is released when one party releases the call. If Caller or Called Release is set, CO line is released when caller or called party releases the call. | 0: First Release 1: Caller Release 2: Called Release | First Release |
| Incoming/Outgoing Mode | Each CO line can be set to only allow incoming or outgoing calls. | 0: Incoming 1: Outgoing 2: Both | Both |
| Dialing Type | One of following dialing signal type can be selected; DTMF, Pulse, R2MFC. | 0: DTMF 1: PULSE 2: R2 | DTMF |
| Charge Mode | Each CO line can be set whether it will be charged or not. FREE: SMDR data is not printed/saved even though SMDR is enabled. ALL CALL REPORT: SMDR data about all of call is printed/saved according to the SMDR Attributes. OUTGOING CALL REPORT: SMDR data about only outgoing call is printed/saved according to the SMDR Attributes. INCOMING CALL REPORT: SMDR data about only incoming call is printed/saved according to the SMDR Attributes. | 0: Free 1: All Call Report 2: Outgoing Report 3: Incoming Report | All Call REPORT |
| Metering Usage | According to PSTN service type, metering type can be selected among 00-13 to manage call charge. 01- 06 can be applied to LCO lines, 07-12 can be applied to ISDN lines. 13 can be applied to all. | 00: None 01: 12KHz 02: 16KHz 03: 50KHz 04: Single Polarity Reverse (SPR) 05: Plural Polarity Reverse (PPR) 06: No Polarity Reverse (NPR) 07: AOC (Standard) 08: AOC-1(Italy & Spain) 09: AOC-2(Finland) 10: AOC-3(Australia) 11: AOC-4(Belgium) 12: AOC-5(Netherlands) 13: TIME | None |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------------|---|---|--------------|
| CO Service mode | One of SIP (or PRI), H. 323 (or BRI) or Qsig type can be selected for each VOIP (or ISDN) lines. SIP/PRI : VOIB line is used for SIP or PRI line H.323/BRI : VOIB line is used for H.323/Gatekeeper or BRI line. QSIG : VOIB or PRI line is used for Voice Networking. T1 PRI : It is used for T1 PRI line. T1 QSIG: T1 PRI line is used for Voice Networking. | Not Assigned 1: SIP/PRI(E1) 2: H. 323 3: H. 450/QSIG(E1) 4: PRI(T1) 5: QSIG (T1) | |
| Drop Type | LCO line drop type | 0: Loop 1: Polarity | Loop |
| Flash type | LCO line Flash type | 0: Loop 1: Ground | Loop |
| Flash timer | CO Flash Timer | 000 – 300(10ms base) | 50 |
| Open Loop timer | Open Loop Timer | 00 – 20(100ms base) | 00 |
| Line Length | LCO line length | 0: 0km 1: 3km 2: 5km 3: 7km | 0km |
| Zone No | Zone number of CO lines | 1-9 | 1 |
| VMIB Prompt Language Index | VMIB Prompt Sets the language of CO lines. Using CO line, announcement/ Prompt is provided for each VMB Prompt language. | 0:First Prompt 1: Second Prompt 2:Third Prompt | First Prompt |
| Gain Table index | Gain table for each CO line | 0: Table 1 1: Table 2 2: Table 3 | Table 1 |
| VOIP FW Usage | For H.323 call, if VOIP CO is behind NAT, this admin should be configured to ON. And Firewall IP Address in PGM 108 is used. For H.323 Networking call, Firewall Routing field in PGM 321 is used. | 0: OFF 1: ON | ON |
| Line Monitor | This determines that detect line fault or not. | 0: OFF 1: ON | ON |
| Tone Table Index | Determines Tone table index to provide Tone for CO line. If this value is not assigned, a system refers to tenant tone table index. | 1-9, NOT ASG | NOT ASG |
| VM Service Retry Count | This determines the retrial count of voice mail services when there's no available voice mail channel. | 000-100 | 000 |
| RTP RELAY USE | his determines if VOIB CO line is used as RTP Relay channel. | 0: OFF 1: ON | ON |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|---|---|----------------|
| CO Access Mode | Blocked Line : If you do not use the trunk, it will be Blocked.. Normal CO Line : Normal CO Line attributes are applied to CDR. Dedicated Line : Dedicated Line attributes are applied to CDR. | 0: Blocked Line 1: Normal CO Line 2: Dedicated Line | Normal CO Line |
| Digit Sending Mode | CO lines can be set to send digit with overlap or Overlap: When you dial a number, it will be sent for each digit. Enblock: When you dial a number, it will be sent at once together. | 0: Overlap 1: Enblock | Overlap |
| Max. Digit Length | Maximum number of dialed digits can be limited with this admin. | 00-32 | 32 |
| Min. Digit Length for Overlap Mode | Maximum number of digits can be for overlap dialing. If it is set with 01-32, then SETUP message will not be sent to network until these minimum digits are dialed. | 00-32 | 00 |
| Check Password | Reserved | 0: OFF 1: ON | OFF |
| R2 Connect Mode | R2 line connection mode can be set. END-TO-END : iPECS-MG system control the all signals of outgoing call. Set in the general case. LINK BY LINK : iPECS-MG system operates as tandem switch. In this case, iPECS-MG system by passes the signal. | 0: END-TO-END 1: LINK-BY-LINK | ENE-TO-END |
| R2MFC Backward Value | R2MFC Backward Value | 1-15 | 1 |
| Dummy Dial-Tone Service | When CO line is seized, dummy dial tone can be provided for in case if PSTN does not provide it. | 0: OFF 1: ON | OFF |
| T1 Normal Mode | Determines if Loop or Ground is selected for each T1 Digital lines. | 0: Loop 1: Ground | Loop |
| T1 DID Mode | Determines if Immediate, Wink, Delay Wink is selected for each T1 DID lines. | 0: Immediate 1: Wink 2: Delay Wink | WINK |
| BY-PASS DTMF | Determines if CO detects DTMF Signal | 0: BY-Pass 1: DETECT | DETECT |
| CPT(Cadence) | Determines if system detects CPT tone with signal level | 0: OFF 1: ON | OFF |
| CID Mode | CID signal type can be assigned according to the CID type PSTN provides. | 0: Disabled 1: FSK 2: DTAS FSK 3: DTMF | FSK |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------------|---|--------------------|---------|
| | | 4: R-CID | |
| RCID Detect | Russia CID Detect Mode | 0: LOCAL 1: ALL | ALL |
| RCID Request | Russia CID Request Mode | 0: USER 1: AUTO | AUTO |
| RCID Digit Number | Russia CID Digit Number | 4-10 | 7 |
| RCID No-Answer Timer | Russia CID NO-Answer Timer | 1-300(sec) | 20 |
| RCID Request Count | Russia CID Request Count | 1-3 | 1 |
| RCID Request First Delay Timer | Russia CID First Delay Timer | 10-150(10msec) | 20 |
| RCID Request Retry Delay Timer | Russia CID Retry Delay Timer | 10-30(10msec) | 10 |
| CID Detection Timer | CID Signal Detection Timer. When CID type is FSK or DTAS-FSK or RCID, during this time, system tries to detect CID | 001-100(100msec) | 40 |

1.5.5.2 Incoming CO Attributes – PGM Codes 165–166

Selecting Incoming CO ATTR will display the page shown, Figure 1.5.5.2-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the Incoming CO Line Attributes data.

The screenshot shows the iPECS Administration interface. The left sidebar has a navigation menu with the following items: Pre-Programmed Data, Numbering Plan, Station Port Data, Station Number Data, **CO Line Data** (selected), Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, and SIP Station Data. The main content area is titled '[Incoming CO Line Attributes]'. It includes a form to 'Enter CO Line Range (1~240):' with 'Load' and 'Overview' buttons. Below this, there are two sections: PGM 165 and PGM 166. Each section contains a table of attributes with checkboxes, attribute names, values, and ranges.

| Order | Attribute | Value | Range |
|----------------|--|-----------------------------|------------------------|
| PGM 165 | | | |
| 1 | <input checked="" type="checkbox"/> CO Name | | Max 16 Characters |
| 2 | <input checked="" type="checkbox"/> ISDN Screen Indicator | User-provided, Not screened | |
| 3 | <input checked="" type="checkbox"/> Calling Type | National | |
| 4 | <input checked="" type="checkbox"/> Calling Numbering Type | Unknown | |
| 5 | <input checked="" type="checkbox"/> Sending Progress Indicator | No | |
| 6 | <input checked="" type="checkbox"/> R2 ANI Service Request | OFF | |
| 7 | <input checked="" type="checkbox"/> ICLID Service | OFF | |
| 8 | <input checked="" type="checkbox"/> Own Code Add to Transit CLI | OFF | |
| 9 | <input checked="" type="checkbox"/> Own Code | | Max 16 Digits |
| 10 | <input checked="" type="checkbox"/> CLI Prefix Code | | Max 2 Digits |
| 11 | <input checked="" type="checkbox"/> International Code | | Max 4 Digits |
| 12 | <input checked="" type="checkbox"/> Transit CLI 1 | | Max 24 Digits |
| 13 | <input checked="" type="checkbox"/> Transit CLI 2 | | Max 24 Digits |
| 14 | <input checked="" type="checkbox"/> Transit CLI 3 | | Max 24 Digits |
| 15 | <input checked="" type="checkbox"/> CLI Conversion Table Index | | 1-9, empty=not assign |
| 16 | <input checked="" type="checkbox"/> Alternative Ring Table Index for Holiday | | 1-80, empty=not assign |
| 17 | <input checked="" type="checkbox"/> Virtual Subscriber Usage | NO, normal service | |
| 18 | <input checked="" type="checkbox"/> Set Anonymous Call(CLI) When No CLI | Enable | |
| PGM 166 | | | |
| 1 | <input checked="" type="checkbox"/> Provide Dial Tone | OFF | |
| 2 | <input checked="" type="checkbox"/> BLF Usage | ON | |
| 3 | <input checked="" type="checkbox"/> Unsupervised Conference Extend | OFF | |
| 4 | <input checked="" type="checkbox"/> Block after Clear Forward Waiting Time | OFF | |

Figure 1.5.5.2-1 Incoming CO Attribute

Incoming CO Attributes define various characteristics of CO lines. Refer to Table 1.5.5.2-1.

Table 1.5.5.2-1 Incoming Co Line Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------|---|---|-----------------------------|
| CO Name | Incoming CO line name can be assigned. | Max. 16 characters | - |
| ISDN Screen Indicator | Decide to insert screen indicator to ISDN message. | 0: user-provided, not screened 1: user-provided, verified and passed | user-provided, not screened |
| Calling Type | For Incoming calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Connected Party Information Element of the ISDN call CONNECT message. | 0: Unknown 1: International 2: National 3: Subscriber 4: Not Used | National |
| Calling Numbering Type | Select Connected numbering plan type of ISDN CONNECT message. That type is included in the ISDN CONNECT Message when sending the called number. | 0: Unknown 1: I SDN/Telephony 2: Data 3: Telex 4: National Standard 5: Private | Unknown |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--|--|--|---------|
| Sending Progress Indicator | If this feature is set to ALL, Progress Indicator is sent to the ISDN PSTN about All Message. If this feature is set to ALERTING, Progress Indicator is sent to the ISDN PSTN about Alerting Message. | 0: NO 1: All Message 2: Altering Message | NO |
| R2 ANI Service Request | If this feature is set to ON to R2 line, system request ANI digits (CLI data) to the calling party. | 0: Off 1: On | OFF |
| ICLID Service | If this feature is set to ON, incoming call is routed according to ICLID table (PGM 262). | 0: Off 1: On | OFF |
| Own Code Add to Transit CLI | If this feature is set to ON, Own code is added before original caller's CLI is sent when there is transit call. | 0: Off 1: On | OFF |
| Own code | Own Code | Max. 16 digits | - |
| CLI Prefix Code | Prefix code is inserted ahead of received CLI data. | Max. 2 digits | - |
| International Code | International Code is inserted ahead of received CLI data according to call type. | Max. 4 digits | - |
| Transit CLI 1 | If Transit CLI type of outgoing CO line is set to 1, Transit CLI 1 is sent. | Max. 24 digits | - |
| Transit CLI 2 | If Transit CLI type of outgoing CO line is set to 2, Transit CLI 2 is sent. | Max. 24 digits | - |
| Transit CLI 3 | If Transit CLI type of outgoing CO line is set to 3, Transit CLI 3 is sent. | Max. 24 digits | - |
| CLI Conversion Table Index | CLI Conversion table index | 1-9, empty = not adding | 4 empty |
| Alternative Ring Table index for Holiday | If Ring mode is holiday and this is assigned, an incoming call is routed to the destination of holiday alternative ring index. | 1-80, empty=not assign | None |
| Virtual Subscriber Usage | According to this value, virtual subscriber service is decided to apply or not. And how to apply virtual subscriber service | 0:NO, Normal Service 1:ALLOW 2:DENY 3:MATCH | NO |
| Set Anonymous Call(CLIR) When No CLI | If a incoming call has no CLI, system handles the call as if CLIR is set. | 0: Disable 1: Enable | Disable |
| Provide Dial Tone | If this feature is set to ON, dial tone is provided to networking CO. | 0: Off 1: On | OFF |
| BLF Usage | If this feature is set to ON, flex button LED will be flashing when CO line is programmed on the button. | 0: Off 1: On | ON |
| Unsupervised Conference Extend | If this feature is set to ON, unsupervised conference timer can be extended by dial feature code after warning tone is heard. | 0: Disable 1: Enable | DISABLE |
| Block after Clear Forward Waiting Time | If this feature is set to ON, CO line is blocked after clear forward waiting time. | 0: Off 1: On | OFF |
| CPT Detect | If this feature is set to ON, Call processing tone is detected to disconnect LCO line. | 0: Off 1: On | OFF |
| Answer to waiting call | If this feature is set to ON, system sends answer when call is waited. | 0: Off 1: On | OFF |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|---|--|----------|
| Universal Answer | If this feature is set to ON, any station can answer a call on the CO Line by dialing the Universal Answer feature code. | 0: Off 1: On | OFF |
| Release Guard Time | If CO release signaling is not completed successfully, CO line is disconnected when this timer expires. | 00-15 (sec) | 1 |
| Unsupervised Conference Timer | When there is a conference call without supervisor, or a CO-to-CO call, the call is disconnected after this timer expires; a warning tone is heard before the line is disconnected. | 000-255(min) | 10 |
| Clear Forward Waiting Timer | Clear Forward Waiting Time. | 1-300 (sec) | 300 |
| Max. Ring Time | Max. Ring Time when incoming CO is transferred/recalled. | 15-300 (sec) | 120 |
| DISA Supervision Timer | DISA CO call will be answered after this time. | 1-99 (100msec) | 5 |
| VMIB Play Delay Timer | VMIB Announcement will be played after this time. | 0-9 (sec) | 0 |
| Incoming Time Table Index | The time table index to be applied to incoming CO Call. | 1-9, none | none |
| CO Delay Answer Timer | For Incoming calls on the ISDN Line, this parameter defines the delay time between Alerting and Connect Message. | 0-100 (100 msec) | 0 |
| Offnet Call Forward Usage | ISDN lines can be set to use Call Deflection/Call Rerouting service if PSTN supports these features. | 0: Join 1: ISDN Call Deflection 2: ISDN Call Rerouting | Join |
| R2 Signal Mapping Group | For R2 line, there is R2 signal group mapping table (PGM 268). This parameter defines the R2 signal group mapping table's index number for backward signal. | 1-9 | 1 |
| R2 Category | If R2 incoming call is routed to another CO, this parameter defines the outgoing call's R2 category. | 1-15 | 1 |
| R2 Line Status | For Incoming calls on the R2 line, this parameter defines the line status when an incoming destination is idle and sends ring back tone. | 1-15 | 6 |
| Collect Call Blocking | It's for only Brazil R2, it blocks for collect call if double answer or with indication is selected. | 0 : Disabled 1: Double Answer 2: With Indication | Disabled |
| Collect Call Answer Timer | If it is set to Double Answer for collect call blocking, this timer is sending dummy answer signal. | 1-250 (100ms) | 10 |
| Collect Call Idle Timer | If it is set to Double Answer for collect call blocking, this timer is sending dummy idle signal. | 1-250 (100ms) | 20 |

1.5.5.3 CO Ring Assignment – PGM Code 167

Selecting CO Ring Assignment will display the page shown, Figure 1.5.5.3-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Ring Assignment data.

iPECS-MG
Administration | S/W Upgrade | System Management | Log Out

iPECS-MG/IT56M-A.04i OCT/09
Boot Version-1.04i AUG/09

Find PGM
Hide Menu

- Pre-Programmed Data
- Numbering Plan
- Station Port Data
- Station Number Data
- CO Line Data**
 - CO Line Attribute(160~163)[N]
 - Incoming CO ATTR(165~166)[N]
 - CO Ring Assignment(167)[N]**
 - Normal/DISA CO ATTR(168)[N]
 - Incoming CO Alternative(169)[N]
 - Outgoing CO ATTR(170~171)[N]
 - Outgoing CO Alternative(173)[N]
 - CO Inter-Digit Timer(174)[N]
 - DTMF Send Interval(175)[N]
 - CO COS Assignment(177)[N]
 - CO-to-CO Attribute(179)[N]
 - CO Group Access Code(180)[N]
 - Alternative Ring Table(181)[N]
- Station Group Data
- System Data
- Table Data
- Tenant Data
- Board Data

[Incoming CO Ring Assignment]

Enter CO Line Range (1~240): ~ **Load** **Overview** **Save**

CO Range From 1 to 1

| Uncheck All | Mode | Service Type | Attribute | Value | Station Delay Value [Station:Dela] |
|-------------------------------------|-------|--------------|------------------------------|---|------------------------------------|
| <input checked="" type="checkbox"/> | Day | Ring Assign | Station Range | Range : <input type="text"/> ~ <input type="text"/> Delay : <input type="text"/> +3sec (0~9,none) | [100:0] |
| | | | Feature Delay Counter (0~30) | <input type="text"/> +3sec | |
| | | | Feature: N/A | | |
| <input checked="" type="checkbox"/> | Night | Feature | Station Range | Range : <input type="text"/> ~ <input type="text"/> Delay : <input type="text"/> +3sec (0~9,none) | [100:0] |
| | | | Feature Delay Counter (0~30) | <input type="text"/> +3sec | |
| | | | Feature: N/A | | |
| <input checked="" type="checkbox"/> | Timed | Ring Assign | Station Range | Range : <input type="text"/> ~ <input type="text"/> Delay : <input type="text"/> +3sec (0~9,none) | [100:0] |
| | | | Feature Delay Counter (0~30) | <input type="text"/> +3sec | |
| | | | Feature: N/A | | |

* Feature
 1. Station Group Number
 2. CCR : Annc. Tbl No(001-100)[PGM 259]
 3. CCR Drop: Annc. Tbl No(001-100)[PGM 259]
 4. DISA Tone
 5. Digits

Figure 1.5.5.3-1 CO Ring Assignment

Each CO line is assigned to a station or feature code for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring modes. Ring signals can be on an immediate or delayed basis allowing other stations to be assigned ringing and answer prior to a delayed station. Delay can be set from 0 to 27 seconds.

NOTE

If the 'DISA Tone Service' feature code is assigned, DISA service is activated line.

Table 1.5.5.3-1 CO Ring Assignment

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|--------------------------------|--|
| Service Type | The service type can be set. Ring Assign : ring option is applied to ring assigned stations. Feature : feature is activated to an incoming call. | 0: Ring Assign 1: Feature | Ring Assign |
| Station Range: Range | To change station's ring assign status, enter desired station range (Max. 30 stations can be assigned). | Start Station & End Station | - |
| Station Range: Delay | Enter delay value; if delay is 0, station will start to ring immediately. If delay value is deleted, the station will not ring. Otherwise if delay is 1-9, the station will start to ring after delay time (3 times delay value). | 0-9 | STA100(Port 0): delay 0 Others: not assigned |
| Station Delay Value [Station Delay] | Assigned station and delay value can be displayed. | | - |
| Feature Delay counter | If Service type is set to Feature code, it can be displayed. | 0-30 | 0 |
| Feature | If Service type is set to 'Feature' and valid feature is assigned, then assigned feature is activated when there is an incoming call. The following feature can be assigned, 1) Station Group 2) ACD Group 3) Announcement Table 4) Announcement Table And Drop 5) DISA Tone 6) Direct VM transfer 7) Networking Number 8) Company Directory 9) Digits: Other digits. If user changes above feature codes from 1) to 9) to other codes, these will be displayed with this 'Digits' type. | | - |

1.5.5.4 Incoming CO Normal/DISA Attributes – PGM Code 168

Selecting Normal/DISA CO ATTR will display the page shown, Figure 1.5.5.4-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

Figure 1.5.5.4-1 Incoming CO Normal/DISA Attributes

If the CO line is set to Normal type, it can have normal CO Attributes including DISA service option.

Table 1.5.5.4-1 INCOMING CO Line/DISA Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------------------|---|-----------------|---------|
| CO Access from DISA | If this feature is set to ON, CO-to-CO call can be allowed from DISA line. | 0: Off 1: On | OFF |
| DISA Account Code | When making CO-to-CO call from DISA line, password can be requested. | 0: Off 1: On | OFF |
| DISA Retry Count | When DISA call fails to route to the desired destination, the call can be retried as many times as the Retry Count. | 09 | 3 |
| Preset Forward Time | If the CO is not answered in Preset Forward Time, it will be routed to the assigned ring table. | 0-20(sec) | 0 |
| Preset Forward Ring Table Index | Preset Forward ring table index can be assigned (refer to PGM 181). | 01-80 | - |

1.5.5.5 CO Incoming Alternate Destination – PGM Code 169

Selecting Incoming CO Alternative will display the page shown, Figure 1.5.5.5-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left has 'CO Line Data' selected, with 'Incoming CO Alternative(169)[N]' highlighted. The main content area is titled '[Incoming CO Line Alternative Destination]'. It features a form to 'Enter CO Line Range (1~240):' with 'Load' and 'Overview' buttons. Below this, a table displays attributes for 'Day' and 'Night' modes. The table has columns: Mode, Check All, Attribute, Prompt, Value, and Prompt No ([PGM 290]).

| Mode | Check All | Attribute | Prompt | Value | Prompt No ([PGM 290]) |
|-------|--------------------------|--------------------|--------|------------------|-----------------------|
| Day | <input type="checkbox"/> | Busy | OFF | Disconnect | Index 9 |
| | <input type="checkbox"/> | No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | Vacant Number | OFF | Disconnect | Index 16 |
| | <input type="checkbox"/> | Transfer No-Answer | OFF | Transfer Station | Index 14 |
| | <input type="checkbox"/> | Recall No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | DND | OFF | Disconnect | Index 22 |
| | <input type="checkbox"/> | Out Of Service | OFF | Disconnect | Index 24 |
| Night | <input type="checkbox"/> | Error | OFF | CO Ring Assign | Index 19 |
| | <input type="checkbox"/> | Busy | OFF | Disconnect | Index 9 |
| | <input type="checkbox"/> | No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | Vacant Number | OFF | Disconnect | Index 16 |
| | <input type="checkbox"/> | Transfer No-Answer | OFF | Transfer Station | Index 14 |
| | <input type="checkbox"/> | Recall No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | DND | OFF | Disconnect | Index 22 |
| | <input type="checkbox"/> | Out Of Service | OFF | Disconnect | Index 24 |
| | <input type="checkbox"/> | Error | OFF | CO Ring Assign | Index 19 |
| | <input type="checkbox"/> | Busy | OFF | Disconnect | Index 9 |
| | <input type="checkbox"/> | No-Answer | OFF | Disconnect | Index 14 |

Figure 1.5.5.5-1 CO Incoming Alternate Destination

When a DID or DISA call is routed to an unavailable destination (busy, DND, not available number etc.), the call can be rerouted to alternate destination. The destination is separately defined for Day/ Night/ Timed mode according to several conditions (busy, no answer, number of errors, transfer no answer, recall no answer, DND, etc) as described. If Prompt usage is set to ON, the relevant tone will be played first and then the call will be routed to alternate destination.

Table 1.5.5.5-1 Incoming CO Alternate Destination

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|--|--|---------|
| Busy | A call can be routed to busy destination when a called party or channel is busy(ex, VMIB) | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| No-Answer | A call can be routed to no-answer destination when a called party does not answer the call.. | Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group | |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|--|--|---------|
| Vacant Number | A call can be routed to vacant number destination when a called party number is invalid format or unallocated number | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone | |
| Transfer No-Answer | A call can be routed to transfer no-answer destination when a transferred to station does not answer the call. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring, Transfer Station | |
| Recall No-Answer | A call can be routed to recall no-answer destination when a station does not answer recall ring.. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Ring | |
| DND | A call can be routed to DND destination when a called part is DND status | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| Out Of Service | A call can be routed to Out Of Service destination when a called part is Out Of Service status | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| Error | A call can be routed to Error destination when a called part is other error case. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |

Table 1.5.5.5-2 Prompt

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|--|--------|---------|
| Prompt | If set ON, the tone is heard first before being routed to alternate destination. | OFF/ON | OFF |
| Prompt No ([PGM 290]) | The relevant tone index in tone table ([PGM 290]) that is played when Prompt is set ON | | |

1.5.5.6 CO Outgoing Attribute – PGM Codes 170–171

Selecting Outgoing CO ATTR will display the page shown, Figure 1.5.5.6-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

The screenshot shows the iPECS Web Administration interface. The sidebar on the left contains a navigation menu with the following items: Pre-Programmed Data, Numbering Plan, Station Port Data, Station Number Data, CO Line Data (highlighted), Station Group Data, and System Data. Under CO Line Data, there are several sub-items: CO Line Attribute(160~163) [N], Incoming CO ATTR(165~166) [N], CO Ring Assignment(167) [N], Normal/DISA CO ATTR(168) [N], Incoming CO Alternative(169) [N], Outgoing CO ATTR(170~171) [N] (highlighted), Outgoing CO Alternative(173) [N], CO Inter-Digit Timer(174) [N], DTMF Send Interval(175) [N], CO COS Assignment(177) [N], CO-to-CO Attribute(179) [N], CO Group Access Code(180) [N], Alternative Ring Table(181) [N], and CO MATM Attribute(182) [N]. The main content area is titled '[Outgoing CO Line Attributes]'. It has a header with 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. Below the header, there is a form to enter a CO Line Range (1-240) with 'Load' and 'Overview' buttons. A 'Save' button is also present. The form displays a table of attributes for PGM 170. The table has columns for Order, Check All, Attribute, Value, and Range. The attributes listed are: 1. ISDN Screen Indicator (User-provided, Not screened), 2. Sending Caller Number (ON), 3. Calling Type (National), 4. Calling Numbering Plan Identification (Unknown), 5. Called Numbering Plan Identification (Unknown), 6. Bearer Capability (Speech), 7. ISDN Line Type (A_LAW), 8. Sending Complete IE for Information Message (OFF), 9. Make Transit CLI (OFF), 10. Own Code Add to Transit CLI (OFF), 11. Representative CLI Usage (OFF), 12. Representative CLI(or SIP Contact) (Max 16 Digits), 13. Own Code (350) (Max 16 Digits), 14. CLI Type (Normal), 15. Transit CLI Type (Normal), 16. CLI Conversion Table Index (1-9, empty=not assign), 17. Send Redirection Number (OFF), 18. Digit Sending Mode (Inband DTMF), 19. Disconnect(ISDN) (Disconnect Immediately), and 20. Digit Map Option Table Index (1-20, empty=not assign).

Figure 1.5.5.6-1 CO Outgoing Attribute

CO Outgoing Attributes define various characteristics of the CO lines under control of the system when there is an outgoing CO call.

Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|--|--|-----------|
| ISDN Screen Indicator | Inserts screen indicator to ISDN message. | 0: Off (user-provided, not screened) 1: On (user-provided, verified and passed) | OFF |
| Sending Caller Number | If this is set to ON, Calling Party Number can be sent. | 0: Off 1: On | ON |
| Calling Type | For outgoing calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message | 0: Unknown 1: International 2: National 3: Subscriber 4: Not Used | Subscribe |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---|--|---|---------|
| Calling Numbering Plan Identification | Select Calling number plan of ISDN SETUP message. | 0: Unknown 1: ISDN/Telephony 2: Data 3: Telex 4: National 5: Private | Unknown |
| Called Numbering Plan Identification | Select Called number plan of ISDN SETUP message. | 0: Unknown 1: ISDN/Telephony 2: Data 3: Telex 4: National 5: Private | Unknown |
| Bearer Capability | Select Bearer Capability of ISDN SETUP message. | 0: Speech 1: Unrestricted 2: Restricted 3: 3.1KHz Audio 4: 7KHz 5: Video | Speech |
| ISDN Line Type | The system will encode voice using the A-law or u-law PCM format and should be set to match the ISDN Back bone type. | 0: A-law 1: U-law | A-Law |
| Sending Complete IE for Information Message | Decide to send 'Sending Complete' IE to ISDN SETUP message. | 0: Off 1: On | OFF |
| Make Transit CLI | When no CLI is sent with a transit call, the system will initiate a CLI to CO direct transit call. | 0: Off 1: On | OFF |
| Own Code Add to Transit CLI | If this feature is set to ON and same feature of incoming CO attribute is also set to ON, then Own code of outgoing CO line is inserted to the CLI of transit CO call. | 0: Off 1: On | OFF |
| Representative CLI Usage | If this feature is set to ON, representative CLI is used to every outgoing call of selected CO line. | 0: Off 1: On | OFF |
| Representative CLI | When 'Representative CLI Usage' (PGM170-F11) is set to ON, representative CLI is sent when making outgoing call regardless of other CLI attribute. | Max. 16 digits | - |
| Own code | CO Own code can be inserted before station number when making outgoing call CLI. | Max. 16 digits | - |
| CLI Type | CLI type can be selected. If set to Long CLI, only selected long CLI data is used instead of normal CLI. | 0: Normal 1: Long CLI 1(PGM 135-F10) 2: Long CLI 2(PGM 135-F11) 3: Long CLI 3(PGM 135-F12) | Normal |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------------|--|--|-------------------|
| Transit CLI Type | Transit CLI type can be selected. If set to transit CLI, only selected transit CLI data is used instead of normal CLI. | 0: Normal 1: CLI 1(PGM 165-F8) 2: CLI 2(PGM 165-F9) 3: CLI 3(PGM 165-F10) | Normal |
| CLI Conversion Table Index | Select CLI Conversion table index | 1-9, none | none |
| Send Redirection Number | If this is set to ON, Redirection Number can be sent | 0: Off 1: On | OFF |
| Digit Sending Mode | If this is set to ON, Digits can be sent as Information message after system receives Call Proceeding Message | 0: Off 1: On | Off |
| Wait User Release for Inband | This defines the operation when system receive the Disconnect Message with Progress Indication(In-band information) Immediate: When a system receives the DISCONNECT Message, CO Line can be released immediately Wait User Release: When a system receives the DISCONNECT Message, CO line is not released till an user release the line. | 0: Immediate 1: Wait User Release | Wait user Release |
| Digit Map Option Table Index | Select Digit Map Option Table index | 1-20, none | none |
| CPT Detect | If this feature is set to ON, CPT (Call Processing Tone) is detected and the line can be dropped. | 0: Off 1: On | ON |
| Unsupervised Conference Extend | If this feature is set to ON, Unsupervised Conf Timer can be extended by dialing feature code after warning tone is heard. | 0: Off 1: On | OFF |
| Provide Ring-Back Tone | If this feature is set to ON, dummy ring back tone is heard by system when CO line is seized. | 0: Off 1: On | OFF |
| BLF Usage | If this feature is set to ON, flex button LED will be flashing when CO line is programmed on the button. | 0: Off 1: On | ON |
| Release Guard Timer | Release Guard Timer can be set. If CO release signaling is not completed successfully, CO line is disconnected when this timer expires. | 0-15 (sec) | 2 |
| Unsupervised Conference Timer | When there is conference call without supervisor, or there is any CO-to-CO call, the call is disconnected after this timer expires. The warning tone is heard before the line is disconnected. | 0-255(min) | 0 |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------------|---|---|-------------------|
| Max. Transfer Ring Timer | Max. Ring Time when outgoing CO is transferred/recalled. | 1-300 (sec) | 120 |
| Outgoing Time Table Index | The time table index to be applied to outgoing CO Call. | 1-9, none | none |
| Analog CO Voice Connection | The Analog CO Voice Connection mode can be set. Inter Digit Timer: Voice path is connected after inter digit timer. Immediate Connection: Voice path is connected when a user seizes the CO line. | 0: Inter Digit Timer 1: Immediate connection | Inter Digit Timer |
| R2 Signal Mapping Group | For R2 line, there is R2 signal group mapping table (PGM 268). This parameter defines the R2 signal group mapping table's index number for backward signal. | 1-9 | 1 |
| ARS Service | Alternative path can be used when all CO lines assigned to a CO access code are busy. | 0: Off 1: On | Off |
| Send DTMF After Dial Tone | If this is set to ON, system sends DTMF signal after it detects the Dial Tone, | 0: Off 1: On | Off |
| Send Digit '#' | Enables sending digit '#'. . | 0: Off 1: On | Off |
| PRI(T1) Caller Name | Enables calling party name entry. According to caller name type, message type is defined. | Max. 16 Chars | none |

1.5.5.7 CO Outgoing Alternate Destination – PGM Code 173

Selecting Outgoing CO Alternative will display the page shown, Figure 1.5.5.7-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Outgoing Alternate Destination data.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left includes options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data' (selected), 'CO Inter-Digit Timer', 'DTMF Send Interval', 'CO COS Assignment', 'CO-to-CO Attribute', 'CO Group Access Code', 'Alternative Ring Table', and 'Station Group Data'. The main content area is titled 'Outgoing CO Line Alternative Destination'. It features a form to 'Enter CO Line Range (1~240):' with 'Load', 'Overview', and 'Save' buttons. Below this, a table displays configuration data for three modes: Day, Night, and Timed. Each mode has a 'Check All' checkbox and a list of attributes with their corresponding values.

| Mode | Check All | Attribute | Value |
|-------|--------------------------|--------------------|-----------|
| Day | <input type="checkbox"/> | Recall No-Answer | Attendant |
| | <input type="checkbox"/> | Transfer No-Answer | Attendant |
| | <input type="checkbox"/> | No-Answer | Attendant |
| Night | <input type="checkbox"/> | Recall No-Answer | Attendant |
| | <input type="checkbox"/> | Transfer No-Answer | Attendant |
| | <input type="checkbox"/> | No-Answer | Attendant |
| Timed | <input type="checkbox"/> | Recall No-Answer | Attendant |
| | <input type="checkbox"/> | Transfer No-Answer | Attendant |
| | <input type="checkbox"/> | No-Answer | Attendant |

Figure 1.5.5.7-1 CO Outgoing Alternate Destination

When an outgoing call is routed to an abnormal destination, the call can be rerouted to an alternate destination. The destination is separately defined for Day/ Night/ Timed mode according to several conditions. (Recall no answer transfer no answer, no answer). You can set the destination to Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot etc. for each condition.

Table 1.5.5.7-1 CO OUTGOING ALTERNATIVE DESTINATION

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|------------------------|---|--|---------|
| Recall No- Answer | A call can be routed to recall no-answer destination when a station does not answer recall ring. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring | |
| Transfer No- Answer | A call can be routed to transfer no-answer destination when a transferred to station does not answer the call | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring, Transfer Station | |
| No-Answer | A call can be routed to transfer no-answer destination about all case except recall/transfer no answer | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring | |

1.5.5.8 CO Outgoing Inter Digit Timer – PGM Code 174

Selecting CO Inter-Digit Timer will display the page shown, Figure 1.5.5.8-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Outgoing Inter Digit Timer data.

The screenshot shows the iPECS web administration interface. The sidebar on the left has a menu with 'CO Line Data' expanded, and 'CO Inter-Digit Timer(174)[N]' is selected. The main content area is titled '[Outgoing CO Line Inter-Digit Timer]'. It features a range input field 'Enter CO Line Range (1~240):' with 'Load' and 'Overview' buttons. Below this is a table with columns 'Attribute', 'Value', and 'Range'. The table lists attributes like 'Seize Wait Time', 'First Digit', 'Second Digit', 'Third Digit', 'Fourth Digit', 'Fifth Digit', and 'More than 6th', each with a checkbox, a value input field, and a range. A 'Check All' button is also present.

| Check All | Attribute | Value | Range |
|--------------------------|-----------------|-------|---------|
| <input type="checkbox"/> | Seize Wait Time | 50 | 005-200 |
| <input type="checkbox"/> | First Digit | 100 | 010-200 |
| <input type="checkbox"/> | Second Digit | 80 | 010-200 |
| <input type="checkbox"/> | Third Digit | 70 | 010-200 |
| <input type="checkbox"/> | Fourth Digit | 60 | 010-200 |
| <input type="checkbox"/> | Fifth Digit | 50 | 010-200 |
| <input type="checkbox"/> | More than 6th | 40 | 010-200 |

Figure 1.5.5.8-1 CO Outgoing Inter Digit Timer

When making an outgoing call with Inband DTMF tone, the time limit to enter digits can be adjusted. After timeout, the voice path is automatically connected.

Table 1.5.5.8-1 CO OUTGOING INTER-DIGIT TIMER

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------|--|----------------------|---------|
| Seize Wait Time | Wait time before first digit | 005-200 (100msec) | 020 |
| First Digit | Time limit between first digit and the next digit. | 010-200 (100msec) | 100 |
| Second digit | Time limit between second digit and the next digit. | 010-200 (100msec) | 080 |
| Third Digit | Time limit between third digit and the next digit. | 010-200 (100msec) | 070 |
| Fourth Digit | Time limit between fourth digit and the next digit. | 010-200 (100msec) | 060 |
| Fifth Digit | Time limit between fifth digit and the next digit. | 010-200 (100msec) | 050 |
| More than 6th | Time limit between digit and the next digit after sixth digit. | 010-200 (100msec) | 040 |

1.5.5.9 CO DTMF Sending Delay Timer – PGM Code 175

Selecting DTMF Send Interval will display the page shown, Figure 1.5.5.9-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO DTMF Sending Delay Timer data.

The screenshot shows the iPECS web administration interface. The left sidebar contains a menu with options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', and 'Station Group Data'. The 'CO Line Data' section is expanded, showing various configuration options. The 'DTMF Send Interval(175)[N]' option is selected. The main area displays the 'DTMF Send Delay Timer' configuration page. It includes a header with 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. Below the header, there is a section for 'Enter CO Line Range (1~240):' with input fields and 'Load' and 'Overview' buttons. A 'Save' button is also present. The main content area shows a table for configuring DTMF delays for CO lines. The table has columns for 'Attribute', 'Value', and 'Range'. The 'Attribute' column lists 'First DTMF Delay', 'Second DTMF Delay', 'Third DTMF Delay', 'Fourth DTMF Delay', 'Fifth DTMF Delay', 'Sixth DTMF Delay', and 'More than 7'. The 'Value' column contains input fields with values like 5, 2, 2, 2, 2, 2, 2. The 'Range' column shows '00-90' for all entries. A 'Load' button is visible at the top right of the table area.

Figure 1.5.5.9-1 CO DTMF Sending Delay Timer

When making an outgoing CO call, the time interval to send DTMF tones of each digit can be adjusted.

Table 1.5.5.9-1 CO DTMF SENDING DELAY TIMER

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|--|-----------------|---------|
| First DTMF Delay | Delay time before sending first digit | 00-90 (100msec) | 05 |
| Second DTMF Delay | Delay time before sending next digit after sending first digit DTMF tone. | 00-90 (100msec) | 02 |
| Third DTMF Delay | Delay time before sending next digit after sending second digit DTMF tone. | 00-90 (100msec) | 02 |
| Fourth DTMF Delay | Delay time before sending next digit after sending third digit DTMF tone. | 00-90 (100msec) | 02 |
| Fifth DTMF Delay | Delay time before sending next digit after sending fourth digit DTMF tone. | 00-90 (100msec) | 02 |
| Sixth DTMF Delay | Delay time before sending next digit after sending fifth digit DTMF tone. | 00-90 (100msec) | 02 |
| More than 7th | Delay time before sending next digit after sending sixth digit DTMF tone. | 00-90 (100msec) | 02 |

1.5.5.10 CO COS Assignment – PGM Code 177

Selecting CO COS Assignment will display the page shown, Figure 1.5.5.10-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO COS Assignment data.

iPECS Administration S/W Upgrade System Management Log Out

iPECS-MG/1T56M-A.04i OCT/09
Boot Version-I.04i AUG/09
Find PGM
Hide Menu

- Pre-Programmed Data
- Numbering Plan
- Station Port Data
- Station Number Data
- CO Line Data**
 - CO Line Attribute(160~163)[N]
 - Incoming CO ATTR(165~166)[N]
 - CO Ring Assignment(167)[N]
 - Normal/DISA CO ATTR(168)[N]
 - Incoming CO Alternative(169)[N]
 - Outgoing CO ATTR(170~171)[N]
 - Outgoing CO Alternative(173)[N]
 - CO Inter-Digit Timer(174)[N]
 - DTMF Send Interval(175)[N]
 - CO COS Assignment(177)[N]**
 - CO-to-CO Attribute(179)[N]
 - CO Group Access Code(180)[N]
 - Alternative Ring Table(181)[N]
- Station Group Data
- System Data

[CO COS Assignment]

Enter CO Line Range (1~240): - Load Overview Save

CO Line Range from 1 to 1

| Order | Check All | Attribute | Value | Range |
|-------|--------------------------|-----------|--------------------------------|--|
| 1 | <input type="checkbox"/> | Day COS | <input type="text" value="0"/> | 0-15 0 : Intercom, Emergency Call 1 : No restrictions 2~15 : Allow, Deny of Toll Exception Table[PGM 250] |
| 2 | <input type="checkbox"/> | Night COS | <input type="text" value="0"/> | |
| 3 | <input type="checkbox"/> | Timed COS | <input type="text" value="0"/> | |

Figure 1.5.5.10-1 CO COS Assignment

Every CO line has its own COS and the toll of assigned COS is applied to the CO call (refer to Toll Exception Tables, PGM 250).

Table 1.5.5.10-1 CO COS ASSIGNMENT

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|----------------------|-------|---------|
| Day COS: 0 | CO COS in Day mode | 00-15 | 0 |
| Day COS: 0 | CO COS in Night mode | 00-15 | 0 |
| Day COS: 0 | CO COS in Timed mode | 00-15 | 0 |

1.5.5.11 CO to CO Call Attributes – PGM Code 179

Selecting CO-to-CO Attribute will display the CO-to-CO Call Attributes data input page, Figure 1.5.5.11-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO-to-CO Call Attributes data.

iPECS Administration S/W Upgrade System Management Log Out

IPeCS-MG/UK55MXA 70s AUG/11
Boot Version-1.04JAN/11
OS version-1.04JUL/11

Find PGM Hide Menu

Pre-Programmed Data
Numbering Plan
Station Port Data
Station Number Data
CO Line Data
CO Line Attribute(160~163)[N]
Incoming CO ATTR(165~166)[N]
CO Ring Assignment(167)[N]
Normal/DISA CO ATTR(168)[N]
Incoming CO Alternative(169)[N]
Outgoing CO ATTR(170~171)[N]
Outgoing CO Alternative(173)[N]
CO Inter-Digit Timer(174)[N]
DTMF Send Interval(175)[N]
CO COS Assignment(177)[N]
CO-to-CO Attribute(179)[N]
CO Group Access Code(180)[N]
Alternative Ring Table(181)[N]
Station Group Data
System Data
Table Data
Tenant Data
Board Data
Voice Network

[CO-to-CO Call Attributes]

Enter First CO Group Range (1~24): -
Enter Second CO Group Range (1~24): -

Save Load

| CO Group Range | Attribute | Value | Range | Overview | |
|----------------|----------------|---------------------------------------|----------|----------|------|
| First (1 ~ 1) | Second (1 ~ 1) | | | | |
| Outgoing | Outgoing | <input type="checkbox"/> Station | Enable | | View |
| | | <input type="checkbox"/> Attendant | Enable | | View |
| | | <input type="checkbox"/> Release Type | None | | View |
| | | <input type="checkbox"/> Release Time | 60 =1sec | 0-3600 | View |
| Incoming | Outgoing | <input type="checkbox"/> Direct | Disable | | View |
| | | <input type="checkbox"/> Station | Enable | | View |
| | | <input type="checkbox"/> Attendant | Enable | | View |
| | | <input type="checkbox"/> Release Type | None | | View |
| | | <input type="checkbox"/> Release Time | 60 =1sec | 0-3600 | View |

Figure 1.5.5.11-1 CO to CO Attributes

CO to CO Call Attribute options can be set separately for each CO group (Incoming CO group to Outgoing CO group, Outgoing CO group to Outgoing CO group).

Table 1.5.5.11-1 CO TO CO ATTRIBUTE

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|---|---------|
| Station Outgoing Call Transfer (Outgoing – Outgoing : Station) | While stations are connected to outgoing CO call of first CO Group, the station can transfer the call to second CO group. | 0: Off 1: On | ON |
| Attendant Outgoing Call Transfer (Outgoing – Outgoing : Attendant) | While ATD is connected to outgoing CO call of first CO Group, the ATD can transfer the call to second CO group. | 0: Off 1: On | ON |
| Outgoing Call Transfer Release Type (Outgoing – Outgoing : Release Type) | If outgoing CO call can be transferred to other CO call, release type can be set. | 0: None 1: Release after Release Timer | None |
| Outgoing Call Transfer Release Time (Outgoing – Outgoing : Release Time) | If an outgoing CO call is transferred to CO call and CO-to-CO call is started, the call is disconnected after release time, when release type is set to 'Rls after Rls Time'; before disconnecting, warning tone is provided. | 000-300 (sec) | 060 |
| Incoming Call Transfer Directly (Incoming – Outgoing : Direct) | If this feature is set to ON, CO incoming call can be transferred directly without any stations or ATD to transfer the call. | 0: Off 1: On | OFF |
| Station Incoming Call Transfer (Incoming – Outgoing : Station) | While stations are connected to incoming CO call of first CO Group, the station can transfer the call to second CO group. | 0: Off 1: On | ON |
| Attendant Incoming Call Transfer (Incoming – Outgoing : Attendant) | While ATD is connected to incoming CO call of first CO Group, the ATD can transfer the call to second CO group. | 0: Off 1: On | ON |
| Incoming Call Transfer Release Type (Incoming – Outgoing : Release Type) | If incoming CO call can be transferred to other CO call, release type can be set. | 0: None 1: Release after Release Timer | None |
| Incoming Call Transfer Release Time (Incoming – Outgoing : Release Time) | If an incoming CO call is transferred to CO call and CO-to-CO call is started, the call is disconnected after release time, when release type is set to 'Rls after Rls Time'; before disconnecting, a warning tone is provided. | 000-300 (sec) | 060 |

1.5.5.12 CO Group Access Code Attribute – PGM Code 180

Selecting CO Group Access Code will display the page shown, Figure 1.5.5.12-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Group Access code attributes data.

Figure 1.5.5.12-1 CO Group Access Code Attribute

Each CO Group Access Code has different attributes so the same CO group can be accessed using different codes and options.

Table 1.5.5.12-1 CO GROUP ACCESS CODE ATTRIBUTE

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|---|---|
| Access Code Name | When CO Grp Access code is dialed or flex. Button of this code is pressed; name is displayed on the station LCD. | Max. 16 characters | - |
| CO Line Choice | Select a CO line priority to seize. | 0: Round Robin 1: Last Line 2: First Line | Round Robin |
| Outgoing Group No | Decide CO Group number to seize. NOTE If not assigned, the access code is used as [LOOP] button. | 01-72 (MG-300) 01-24 (MG-100) | Not assigned to the first access code. 01-72(MG-300) 01-24(MG-100) is assigned sequentially from the second access code |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|---|------------------|
| AND Digit | Automatic Network Dialing (AND) digit is sent after the CO line is seized. Establishes CO calls by dialing CO Group Access Code only. | Max. 10 digits | - |
| Emergency Force Service | If Emergency Force Service is set and all co line is busy, a CO line can be disconnected and emergency call can be served. | 0: OFF 1: ON | OFF |
| ARS Service | If Alternate Route Selection (ARS) is set, ARS digit is dialed instead of CO Group Access code when there is no available path CO line. | 0: OFF 1: ON | OFF |
| 1 st ARS CO Group Access code | Alternate CO Group Access code to be used when original CO Group Access code failed to find available CO line. | Max. 8 digits | - |
| 1 st ARS Digit Usage | When alternate CO Group Access code is used, this field defines digits to send. | 0: Converted 1: Original 2: Converted(Digit Conversion Table) 3:Original(Digit Conversion Table) | Converted Digits |
| 1 st ARS Digit Conversion Table | Digit conversion table to convert ARS digit. | 1-9 | - |
| 2 nd ARS CO Group Access code | Second alternate CO Group Access code to be used when original CO Group Access code and first ARS code failed to find available CO line. | Max. 8 digits | - |
| 2 nd ARS Digit Usage | When alternate CO Group Access code is used, this field defines if original digits or converted digits are used. | 0: Converted 1: Original 2: Converted(Digit Conversion Table) 3:Original(Digit Conversion Table) | Converted Digits |
| 2 nd ARS Digit Conversion Table | When alternate CO Group Access code is used, this field defines digits to send. | 1-9 | |

1.5.5.13 Alternate Ring Assignment – PGM Code 181

Selecting Alternative Ring Table will display the page shown, Figure 1.5.5.13-1.

1. Enter a valid Table index.
2. Click **[Load]** to enter the Alternate Ring Assignment data.

Figure 1.5.5.13-1 Alternate Ring Assignment

There is a supplementary ring assignment table, which is used for alternative destination or ICLID destination, CO Preset Call Forward, Holiday Ring Table, etc. The destination can be stations (no delay value) or any feature code.

Table 1.5.5.13-1 ALTERNATIVE CO RING TABLE ATTRIBUTE

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|--|------------------------------|-------------|
| Service Type | If service type is set as 'Ring Assign', ring option is applied to ring assigned stations. Otherwise, if service type is set to 'Feature', feature is activated to an incoming call. | 0: Ring Assign 1: Feature | Ring Assign |
| Station Range | Destination stations | | |
| Feature Delay counter | If Service type is set to Ring assign, feature code is activated after feature delay counter. | 00-30 | 00 |
| Feature | If Service type is set to 'Feature' or Feature delay counter is set, then assigned feature is activated when there is an incoming call. The following feature can be assigned, 1) Station Group 2) ACD Group 3) Announcement Table 4) Announcement table and Drop 5) DISA Tone 6) Direct VM transfer 7) networking number 8) Company Directory 9) Digits | | - |

1.5.5.14 CO MATM Attribute – PGM Code 182

Selecting Alternative Ring Table will display the page shown, Figure 1.5.5.14-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO MATM Attribute data.

Enter CO Line Range (1~240): -

CO Line Range from 1 to 1

| <input type="checkbox"/> | Attribute | Value | Range |
|--------------------------|---------------------------|----------|--------------------------------|
| <input type="checkbox"/> | Delay Start Timer | 8 +1sec | 0-255 (only EM) |
| <input type="checkbox"/> | Send Wink Timer | 6 +1sec | 0-255 (only EM) |
| <input type="checkbox"/> | Send Answer Timer | 6 +1sec | 0-255 (only EM) |
| <input type="checkbox"/> | Osdn Release Timer | 13 +1sec | 0-255 (only EM) |
| <input type="checkbox"/> | Send Ring On Timer | 20 +1sec | 4-255 (only CO, RD) |
| <input type="checkbox"/> | Send Ring Off Timer | 40 +1sec | 4-255 (only CO, RD) |
| <input type="checkbox"/> | Send Ring Rptcnt Co Timer | 8 +1sec | 0-255 (only CO, RD) |
| <input type="checkbox"/> | Send Ring Rptcnt Rd Timer | 2 +1sec | 1-20 (only CO, RD) |
| <input type="checkbox"/> | EM Signal Mode | 2W | 0-1 (only EM, need MATM reset) |

Figure 1.5.5.14-1 CO MATM Attribute

A number of timers can be assigned to control and affect MATM features and functions of the System.

Table 1.5.5.14-1 CO MATM Attribute

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|--|-------------------|---------|
| Delay Start Timer | Determine the time of delay start timer. This timer only for EM type. | 005–200 (100msec) | 006 |
| Send Wink Timer | Determine the time of send wink timer. This timer only for EM type. | 010–200 (100msec) | 006 |
| Send Answer Timer | Determine the time of send answer timer. This timer only for EM type. | 010–200 (100msec) | 006 |
| Osdn Release Timer | Determine the time of osnd release timer. This timer only for EM type. | 010–200 (100msec) | 013 |
| Send Ring On Timer | Determine the time of send ring on timer. This timer only for CO, RD type. | 010–200 (100msec) | 020 |
| Send Ring Off Timer | Determine the time of send ring off timer. This timer only for CO, RD type. | 010–200 (100msec) | 040 |
| Send Ring Rptcnt Co Timer | Determine the time of send ring repeat count co timer. This timer only for CO, RD type. | 010–200 (100msec) | 008 |
| Send Ring Rptcnt Rd Timer | Determine the time of send ring repeat count read timer. This timer only for CO, RD type. | | 02 |
| EM Signal Mode | Determine the EM signal mode 2W(0) or 4W(1). This timer only for EM type. If you change this ADMIN, need MATM reset. | | 2W(0) |

1.5.6 Station Group Data

Stations can be grouped for call routing, dialing, call pick-up, or various purposes.

The following groups can be defined:

- Station Group: Terminal / Circular / Ring / Longest Idle / VM
- Pick Up Group
- Paging Group
- Command call Group
- PTT Group
- Interphone Group
- Pilot Hunt Group
- ACD Group

Selecting the Station Group Data program group returns the sub-menu displayed, Figure 1.5.6-1.



Figure 1.5.6-1 System Group Data Main Page

The Station Group capacities for the iPECS-MG system are shown in the next following table.

1.5.6.1 Station Group Assignment – PGM Code 200

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of hunt processes, Terminal, Circular, Ring, Longest Idle and VM.

The Station Group capacities for the iPECS-MG system are shown in Table 1.5.6-1 STATION GROUP CAPACITY.

Table 1.5.6.1-1 STATION GROUP CAPACITY (iPECS-MG 100 & iPECS-MG 300)

| ITEM | CAPACITY | |
|-------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Groups | 20 | 50 |
| Member in a Group | 50 | 50 |

Selecting Station Group Assignment will display the page shown, Figure 1.5.6.1-1. Enter the desired Station Group Number and click **[Load]** to display the Station Group Assignment.

Figure 1.5.6.1-1 Station Group Assignment

The page consists of 2 menus – [Basic Attributes] & [Member Management]:

- [Basic Attributes] menu – ‘group type’, ‘group name’, ‘tenant number’, ‘time table index’ and ‘pickup option’ are assigned to the Station Group.
- [Member Management] menu – members of the Station group are managed. Adding members to the Station Group or deleting members from the Station Group is possible.

To add members to the Station Group:

1. Input the desired Station range to add.
2. Click **[Add]** button.

To delete members from the Station Group:

1. Input the desired Station range to delete.
2. Click **[Del]** button or check the members to delete.
3. Click the **[Delete Checked Member]** button.

NOTE

A station can belong to multiple groups.

Table 1.5.6.1-2 STATION GROUP ASSIGNMENT

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---|--|------------|
| Group Type | Determines the type of station group. | 0: Not Assign 1: Terminal 2: Circular 3: Ring 4: Longest Idle 5: Voice Mail | Not Assign |
| Group Name | Determines the name of group. | Max. 16 characters | - |
| Tenant Number | Assigns a tenant of station group. According to the Tenant Group Access, Stations in other groups are allowed or denied the ability to place intercom calls to this Station group. | 1-9(MG-300) 1-5(MG-100) | 1 |
| Time Table Index | Determines the time table index of group It can be used to determine the forward destination with apply time type. Pickup Option | 1-9 | 1 |
| Pick Up Option | Stations can pick-up group calls ringing at other stations in the group. According to the value, Station group can be set to Pick-Up group. | 0: Disable 1: All Call 2: Intercom 3: External | Disable |
| Member | Assigns stations as members of a station group. | | - |

1.5.6.2 Station Group Attributes – PGM Codes 201–202

Selecting Station Group Attributes will display the page shown, Figure 1.5.6.2-1. Enter the desired Station Group Number and click **[Load]** to display the Station Group Attributes data.

The screenshot shows the iPECS web administration interface. The sidebar on the left contains navigation options: CO COS Assignment(177)[N], CO-to-CO Attribute(179)[N], CO Group Access Code(180)[N], Alternative Ring Table(181)[N], Station Group Data, Station Group Assign(200)[N], Station Group Attribute(201~202)[N], Voice Mail Group(203)[N], Call Pick-Up Group(204)[N], Page Group(205)[N], Command Conference Grp(206)[N], PTT Group(208)[N], Interphone Group(209)[N], Pilot Hunt Group(210~211)[N], ACD Group Assignment(212)[N], ACD Group Attribute(213~214)[N], ACD Group Announcement(215)[N], ACD Agent State & Priority[N], System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, SIP Station Data, Zone Data, SNMP Data, DECT Data, Green Mode, and Initialization.

The main content area is titled '[Station Group Attributes]'. It includes a form to enter a Station Group Number (620~669) and a 'Load' button. Below the form, the Station Group Number is set to 620. The table of attributes is divided into sections for PGM 201 and PGM 202. The table has columns for Order, Attribute, Value, and Range.

| Order | Attribute | Value | Range |
|------------------------------------|--|--------------|----------------------------|
| PGM 201 | | | |
| Greeting Announcement | | | |
| 1 | Greeting Tone Type | Announcement | |
| 2 | Greeting Play Timer | 10 | 0-180 |
| 3 | Greeting Tone No | | 1-19 |
| 4 | Greeting Prompt/Announcement Table No[PGM 259] | 1 | 1-255(prompt)/1-100(annc.) |
| 5 | Greeting Repeat Count | 2 | 0-100 |
| 6 | Greeting Repeat Delay Timer | 1 | 0-100 |
| First Queuing Announcement | | | |
| 7 | Queuing Tone Type | Announcement | |
| 8 | Queuing Forward/Second Queuing Annc. Timer | 20 | 0-300 |
| 9 | Queuing Tone No | | 1-19 |
| 10 | Queuing Prompt/Announcement Table No[PGM 259] | 2 | 1-255(prompt)/1-100(annc.) |
| 11 | Queuing Repeat Count | 3 | 0-100, 0=continuous |
| 12 | Queuing Repeat Delay Timer | 5 | 0-100 |
| 13 | CCR during First Queuing Announcement | ON | |
| 14 | MOH for Prompt/Announcement Pause | Internal MOH | |
| Second Queuing Announcement | | | |
| 15 | Queuing Tone Type | Announcement | |
| 16 | Queuing Forward Timer | 20 | 0-300 |
| 17 | Queuing Tone No | | 1-19 |
| 18 | Queuing Prompt/Announcement Table No[PGM 259] | 70 | 1-255(prompt)/1-100(annc.) |
| 19 | Queuing Repeat Count | 2 | 0-100, 0=continuous |
| 20 | Queuing Repeat Delay Timer | 2 | 0-100 |
| 21 | CCR during Second Queuing Announcement | ON | |
| 22 | MOH for Prompt/Announcement Pause | Internal MOH | |
| PGM 202 | | | |

Figure 1.5.6.2-1 Station Group Attributes

Each type of group has a different set of available attributes relating to greeting and queuing announcements and timers. Station Group has available attributes relating to announcements, timers, forward, etc., as the following table describes.

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---|--|---------|
| Greeting Tone Type | Determines the type of greeting tone. When the Station Group is called, Greeting Tone is always provided. Range 1 - 14, default 1 Normal Tone | 1. Normal 2. Prompt 3. Annc 4. INT MOH 5. EXT MOH 6. VMIB MOH1 7. VMIB MOH2 8. VMIB MOH3 9. VMIB MOH4 (MG300 Only) 10. SLT MOH1 11. SLT MOH2 12. SLT MOH3 | Normal |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|--|---|---------|
| | | 13. SLT MOH4 14. SLT MOH5 | |
| Greeting Play Timer | Determines greeting play time. Greeting announcement can be played during greeting play timer. | 000~180 (seconds) | 000 |
| Greeting Tone No | Determines greeting tone number in case greeting type is normal. | 01~19 | NOT ASG |
| Greeting Prompt/ Announcement Table No (PGM 259) | Determines greeting prompt / annc number when greeting type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Greeting Repeat Count | After a Greeting announcement is played, system repeats it for this value. If value is 0, the Greeting announcement is repeated infinitely. Or, greeting announcement is stop when the Greeting Play timer is expired. | 000-100 | 3 |
| Greeting Repeat Delay Timer | Determines the pause timer before greeting repeat. This is the time for the delay between Greeting announcements. | 000-100 (seconds) | 0 |
| Queuing Tone Type | Determines the type of queuing tone. When all members are busy or set to Call Forward or in DND, Queuing Tone is provided. | 1. Normal 2. Prompt 3. Annc 4. INT MOH 5. EXT MOH 6. VMIB MOH1 7. VMIB MOH2 8. VMIB MOH3 9. VMIB MOH4 (MG300 Only) 10. SLT MOH1 11. SLT MOH2 12. SLT MOH3 13. SLT MOH4 14. SLT MOH5 | INT MOH |
| Queuing Forward/Second Queuing Annc. Timer | Determines queuing forward/second annc timer. When this timer is expired, the call is forwarded according to Forward Type.. | 010~300 (seconds) | 30 |
| Queuing Tone No | Determines tone number in case queuing type is normal. The tone of Tone Frequency/Cadence (PGM 264) is provided. | 01~19 | NOT ASG |
| Queuing Prompt/ Announcement Table No (PGM 259) | Determines queuing prompt / annc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Queuing Repeat Count | Determines queuing repeat number. After a Queuing announcement, system repeats the announcement for this value. If value is 0, the announcement is repeated infinitely. Or, announcement is stop when the Queuing timer is expired. | 000-100 | 3 |
| Queuing Repeat Delay Timer | Determines the pause timer before queuing repeat. This is the time for the delay between Queuing Announcements. | 000-100 (seconds) | 0 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|---|--|---------|
| CCR during First Queuing Announcement | This entry defines CCR option during queuing announcement is provided. Determines CCR option during queuing announcement is provided. If Queuing Tone type is Announcement, CCR is operated according to CCR Table Index of Announcement Table(PGM 259). | 0-1 | 0 |
| MOH for Prompt/Announcement Pause | This entry defines MOH option during queuing annnc. Pause time. | 1. OFF 2. INT MOH 3. EXT MOH 4. VMIB MOH1 5. VMIB MOH2 6. VMIB MOH3 7. VMIB MOH4 (MG300 Only) 8. SLT MOH1 9. SLT MOH2 10. SLT MOH3 11. SLT MOH4 12. SLT MOH5 | OFF |
| Second Queuing Tone Type | Determines the type of queuing tone. | 1. Normal 2. Prompt 3. Annc 4. INT MOH 5. EXT MOH 6. VMIB MOH1 7. VMIB MOH2 8. VMIB MOH3 9. VMIB MOH4 (MG300 Only) 10. SLT MOH1 11. SLT MOH2 12. SLT MOH3 13. SLT MOH4 14. SLT MOH5 | INT MOH |
| Second Queuing Forward/Second Queuing Annc. Timer | Determines queuing forward/second annc timer. | 010~300 (seconds) | 30 |
| Second Queuing Tone No | Determines tone number in case queuing type is normal. | 01~19 | NOT ASG |
| Second Queuing Prompt/Announcement Table No (PGM259) | Determines queuing prompt / annc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Second Queuing Repeat Count | Determines queuing repeat number. | 000-100 | 3 |
| Second Queuing Repeat Delay Timer | Determines the pause timer before queuing repeat. | 000-100 (seconds) | 0 |
| Second CCR during First Queuing Announcement | This entry defines CCR option during queuing announcement is provided. If Queuing Tone type is Announcement, CCR is operated according to CCR Table Index of Announcement Table(PGM 259). | 0-1 | 0 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|---|----------------|
| Second MOH for Prompt/Announcement Pause | This entry defines MOH option during queuing annnc. Pause time. | 1. OFF 2. INT MOH 3. EXT MOH 4. VMIB MOH1 5. VMIB MOH2 6. VMIB MOH3 7. VMIB MOH4 (MG300 Only) 8. SLT MOH1 9. SLT MOH2 10. SLT MOH3 11. SLT MOH4 12. SLT MOH5 | OFF |
| Call In Greeting | Determines if a call is routed to destination during greeting, tone is played. | 0. After Greeting 1. In Greeting | After Greeting |
| Max. Queue Count | Determines queue count. | 00-99 | 00 |
| Forward Type | Determines forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Timeout: a call is routed to a forward destination when a Timeout timer is expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired. | 0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All | NOT USED |
| Apply Time Type | Determines a time to apply forward type. | 0. ALL 1. DAY 2. NIGHT 3. TIMED | ALL |
| Forward Destination | Determines a forward destination (trunk access code should be included). | Max. 16 digits | None |
| Wrap-Up Timer | Determines wrap up timer; a member is available when this timer is expired after a member goes to idle. | 000-600 | 010 |
| Member No-Answer Timer | Determines no answer timer; if this timer is expired, a call is routed to the next member. | 05-60 (seconds) | 15 |
| Ring No-Answer Forward Timer | This entry defines ring no answer timer. If this timer is expired, a call is routed to the forward destination according to forward type. | 0-180 (seconds) | 0 |
| Provide Announcement with Answer | This entry defines if system answers the call when a greeting or queuing announcement is provided. | 0: with answer 1: w/o answer | with answer |

1.5.6.3 Voice Mail Group Attributes – PGM Code 203

Selecting Voice Mail Group Attributes will display the page shown. Enter the Voice Mail Group number and click **[Load]**, the Web page for the selected group will be displayed, Figure 1.5.6.3-1.

| Order | Attribute | Value |
|-------|----------------------|--------|
| 1 | Put Mail Index | 1 |
| 2 | Get Mail Index | 2 |
| 3 | Busy Index | 3 |
| 4 | No-Answer Index | 4 |
| 5 | Disconnect Index | 9 |
| 6 | SMDI Type | Type 1 |
| 7 | SMDI CLI Information | OFF |

Figure 1.5.6.3-1 Voice Mail Group Attributes

Voice Mail group has available attributes relating to the dialing service such as put mail, get mail, etc., as described in the following Table 1.5.6.3-1.

Table 1.5.6.3-1 VOICE MAIL GROUP ATTRIBUTES

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------|---|----------------------|---------|
| Put Mail Index | For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Put Mail" dial code. | 1-9 | 1 |
| Get Mail Index | For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Get Mail" dial code. | 1-9 | 2 |
| Busy Index | For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Busy" dial code. | 1-9 | 3 |
| No-Answer Index | For external analog Voice Mail groups, an index to the Voice Mail Dial Table, which contains the "No answer" dial code. | 1-9 | 4 |
| Disconnect Index | For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Disconnect" dial code. | 1-9 | 9 |
| SMDI Type | This entry defines SMDI Type for external voice mail device. | 0. Type1 1. Type2 | Type1 |
| SMDI CLI Information | This entry defines SMDI CLI Information. If set to enable, the system will send SMDI with CLI. | ON/OFF | OFF |

1.5.6.4 Pick Up Group – PGM Code 204

Selecting Pick Up Group will display the page shown, Figure 1.5.6.4-1.

Enter the desired Pick Up Group number and click **[Load]** to display the group member Assignment.

The screenshot shows the iPECS-MG Web Administration interface. The sidebar on the left contains navigation links: Pre-Programmed Data, Numbering Plan, Station Port Data, Station Number Data, CO Line Data, Station Group Data (highlighted), Station Group Assign(200)[N], Station Group Attribute(201~202)[N], Voice Mail Group(203)[N], Call Pick-Up Group(204)[N] (selected), Page Group(205)[N], Command Conference Grp(206)[N], PTT Group(208)[N], Interphone Group(209)[N], Pilot Hunt Group(210~211)[N], ACD Group Assignment(212)[N], ACD Group Attribute(213~214)[N], ACD Group Announcement(215)[N], and ACD Agent State & Priority[N]. The main content area is titled '[Pick-Up Group Assign]'. It features a 'Enter Pick-Up Group Index (1~50):' field with a 'Load' button. Below this, the 'Pick-Up Group Index : 1' is displayed. A table with columns 'Attribute', 'Value', and 'Button' shows 'Pick-Up Condition' set to 'All Call' with a 'Save' button. The 'Member Management' section includes 'Add Station Range' and 'Del Station Range' fields with 'Add' and 'Del' buttons. A large table lists members by index, with columns for 'Index', 'All' (checkbox), and 'Member'. The table contains 45 rows of data, with members numbered 1000 through 1020.

Figure 1.5.6.4-1 Pick-Up Group Assignment

Firstly, determine Pick-up Condition, and manage members of Pick-Up Group. How to manage members is the same as the way of Station Group Assignment (PGM 200).

Table 1.5.6.4-1 PICKUP GROUP ASSIGNMENT

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|--|----------|
| Pick-Up Condition | Determines pick up condition. (All/Internal/External) | All Call Intercom Call External Call | All Call |
| Member | Assigns stations as members of a station pickup group. | | - |

The Station Pick up Group capacities for the iPECS-MG system is described in Table 1.5.6.4-2.

Table 1.5.6.4-2 STATION PICK-UP GROUP CAPACITY

| ITEM | CAPACITY | |
|-------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Groups | 20 | 50 |
| Member in a Group | 100 | 100 |

1.5.6.5 Page Group – PGM Code 205

Selecting Page Group Assignment will display the page shown, Figure 1.5.6.5-1. Enter the desired Page Group number and click **[Load]** to display the Group Assignment.

Figure 1.5.6.5-1 Page Group Assignment

Table 1.5.6.5-1 PAGE GROUP ATTRIBUTES

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|-------|---------|
| Member | Assigns stations as members of a page group. | | - |

The Page Group capacities for the iPECS-MG system are shown in Table 1.5.6.5-2.

Table 1.5.6.5-2 PAGE GROUP CAPACITY

| ITEM | CAPACITY | |
|-----------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Page Groups | 15 | 30 |
| Member in a Group | 50 | 50 |

1.5.6.6 Command Conference Group – PGM Code 206

Selecting Command Conference Group will display the page shown, Figure 1.5.6.6-1.

1. Enter the desired Command Conference Group number.
2. Click **[Load]** to display the Group Assignment, Attributes.

Figure 1.5.6.6-1 Command Conference Group Assignment

A user can make command call with **{command group call (Page)}** feature code, **{Command group call (conference)}** feature code.

Stations and external telephone number can be arranged in groups so that a user may create a conference with all members of the group with a single call. Member assignment is only available from within Web Admin.

Table 1.5.6.6-1 COMMAND CALL GROUP ASSIGNMENT

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|--|---------|
| On-Hook Service | Determines On Hook Service. 0. On Hook: When a user goes on hook, system allows ON HOOK service. 1. Recall: When a user goes on hook, system provides RECALL. | 0. ON HOOK 1. RECALL | ON HOOK |
| One-Way Busy | Determines ONE WAY BUSY service. 0. BUSY : the call for busy station can be canceled 1. Request Queuing : the call can be queued in busy station 2. Recover Call : the call can be override after the existing call is disconnected. | 0. BUSY 1. REQUEST QUEUING 2. RECOVER CALL | BUSY |
| Both-Way Busy | Determines BOTH WAY BUSY. 0. BUSY : the call for busy station can be canceled 1. Request Queuing : the call can be queued in busy station | 0. BUSY 1. REQUEST QUEUING 2. RECOVER | BUSY |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|-------|---------|
| | 2. Recover Call: the call can be override after the existing call is disconnected. | CALL | |
| Member | Determines member of group. Station: Station Number CO Grp: CO Grp Access code and Tel Number | | |

The Command Conference Group capacities for the iPECS-MG system are shown in Table 1.5.6.6-2.

Table 1.5.6.6-2 COMMAND CALL GROUP CAPACITY

| ITEM | CAPACITY | |
|-------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Groups | 10 | 10 |
| Member in a Group | 12 | 12 |

1.5.6.7 PTT Group – PGM Code 208

Selecting PTT Group Assignment will display the page shown, Figure 1.5.6.7-1. Enter the desired PTT Group number and click **[Load]** to display the Group Assignment.

Figure 1.5.6.7-1 PTT Group Assignment

Each Phone can be assigned as a member of one or more of the system Push-To-Talk groups. a member can page to PTT group by using PTT button after the member logged in.

The PTT Group capacities for the iPECS-MG system are shown in Table 1.5.6.7-1.

Table 1.5.6.7-1 PTT GROUP ATTRIBUTES

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|-------|---------|
| Member | This entry assigns stations as members of a PTT group. | | - |

The PTT Group capacities for the iPECS-MG system are shown in Table 1.5.6.7-2 as below.

Table 1.5.6.7-2 PTT GROUP CAPACITY

| ITEM | CAPACITY | |
|----------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of PTT Groups | 10 | 10 |
| Member in a Group | 50 | 50 |

1.5.6.8 Interphone Group – PGM Code 209

Selecting Interphone Group Assignment will display the page shown, Figure 1.5.6.8-1. Enter the desired Interphone Group number and click **[Load]** to display the Group Assignment.

Figure 1.5.6.8-1 Interphone Group Digit Destination

To call the stations using one digits, some stations can be gathered into an 'Interphone Group' (refer to Table 1.5.6.8-1).

Table 1.5.6.8-1 INTERPHONE GROUP DIGIT DESTINATION

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|----------------|---------|
| Digit '0' Service | Determines the digit '0' destination of Interphone group. | Station Number | - |
| Digit '1' Service | Determines the digit '1' destination of Interphone group. | Station Number | - |
| Digit '2' Service | Determines the digit '2' destination of Interphone group. | Station Number | - |
| Digit '3' Service | Determines the digit '3' destination of Interphone group. | Station Number | - |
| Digit '4' Service | Determines the digit '4' destination of Interphone group. | Station Number | - |
| Digit '5' Service | Determines the digit '5' destination of Interphone group. | Station Number | - |
| Digit '6' Service | Determines the digit '6' destination of Interphone group. | Station Number | - |
| Digit '7' Service | Determines the digit '7' destination of Interphone group. | Station Number | - |
| Digit '8' Service | Determines the digit '8' destination of Interphone group. | Station Number | - |
| Digit '9' Service | Determines the digit '9' destination of Interphone group. | Station Number | - |

The Interphone Group capacities for the iPECS-MG system are shown in Table 1.5.6.8-2.

Table 1.5.6.8-2 INTERPHONE GROUP CAPACITY

| ITEM | CAPACITY | |
|-------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Groups | 10 | 10 |
| Member in a Group | 10 | 10 |

1.5.6.9 Pilot Hunt Group – PGM Codes 210–211

Selecting Pilot Hunt Group Assignment will display the page shown, Figure 1.5.6.9-1. Enter the desired Pilot Hunt Group number and click **[Load]** to display the Group Assignment.

Figure 1.5.6.9-1 Pilot Hunt Group Attributes

A Station can be grouped for Pilot Hunt Feature.

Users may select incoming calls in the group to re-route to other stations (local or networked), station groups, the VMIB according to ring mode (Day/Night/Timed).

A member of the Pilot Hunt Group may have Pilot Hunt Ring Access authority set for call coverage on another member Station in a group.

Table 1.5.6.9-1 PILOT HUNT GROUP ATTRIBUTES

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---|---|----------|
| Service | ALL call : Intercom and External call will be served for Pilot Hunt Feature. Intercom call: Only Intercom call will be served. External call: Only External call will be served. | 0. ALL call 1. Intercom call 2. External call | ALL call |
| Type | Terminal: The call will proceed to the next listed station in the group until reaching the last listed station. Circular: The call will be directed to the next station defined in the group. The call will continue to hunt until each station in the group has been tried. | 0. Terminal 1. Circular | Circular |
| Time Table Index | Time Table index | 1-9 | 1 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|---|--|---------|
| Day Forward Type | Determines call forward type during Day mode. | 0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer | Not Use |
| Day Forward Destination | Determines the forward destination during Day mode. | Max. 24 digits | |
| Night Forward Type | Determines call forward type during Night Mode. | 0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer | Not Use |
| Night Forward Destination | Determines the forward destination during Night mode. | Max. 24 digits | |
| Timed Forward Type | Determines the timed call forward type during Timed mode. | 0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer | Not Use |
| Timed Forward Destination | Determines the timed forward destination during Timed mode. | Max. 24 digits | |
| Members | Assigns stations as members of a pilot hunt group. | | |

The Pilot Hunt Group capacities for the iPECS-MG system are shown in Table 1.5.6.9-2 as shown.

Table 1.5.6.9-2 PILOT HUNT GROUP CAPACITY

| ITEM | CAPACITY | |
|-------------------|--------------|--------------|
| | iPECS-MG 100 | iPECS-MG 300 |
| Number of Groups | 20 | 50 |
| Member in a Group | 20 | 20 |

1.5.6.10 ACD Group Assignment – PGM Code 212

Selecting ACD Group Assignment will display the page shown, Figure 1.5.6.10-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Assignment data.

[ACD Group Assignment]

Enter ACD Group Number (600~619): **Load** **Overview**

ACD Group Number : 600

[Basic Attributes]

| Attribute | Value | Range |
|----------------------------|------------------------------|-------------------|
| Group Name | <input type="text"/> | Max 16 Characters |
| Service Status | Normal | |
| Tenant Number | 1 | 1-9 |
| Time Table Index | 1 | 1-9 |
| Auto Service Status Change | Manual Change | |
| Main Supervisor | 1000 | |
| Sub Supervisor | SUB 1 1001 SUB 2 SUB 3 | |

[Member Management]

Add Station Range : - **Add**

Del Station Range : - **Del**

| Index | All | Member | Index | All | Member |
|-------|--------------------------|--------|-------|--------------------------|--------|
| 1 | <input type="checkbox"/> | 1005 | 2 | <input type="checkbox"/> | |
| 3 | <input type="checkbox"/> | | 4 | <input type="checkbox"/> | |
| 5 | <input type="checkbox"/> | | 6 | <input type="checkbox"/> | |
| 7 | <input type="checkbox"/> | | 8 | <input type="checkbox"/> | |
| 9 | <input type="checkbox"/> | | 10 | <input type="checkbox"/> | |

Figure 1.5.6.10-1 ACD Group Attributes

The ACD Group capacities for the iPECS-MG system are shown in the following table.

Table 1.5.6.10-1 ACD Group Capacity

| Items | iPECS-MG 100 | iPECS-MG 300 |
|-----------------------------------|--------------|--------------|
| Number of ACD Group | 20 | 50 |
| Number of Supervisor | 1 | 1 |
| Number of Sub-Supervisor | 3 | 3 |
| Number of Agents | 50 | 50 |
| Max. Queue Count | 99 | 99 |
| Max. Steps for Queue Announcement | 5 | 5 |
| ACD Agent Priority | 20 (1 ~ 20) | 20 (1 ~ 20) |

The page consists of 2 menus – [Basic Attributes] & [Member Management]:

- [Basic Attributes] menu – ‘group name’, ‘service status’, ‘tenant number’, ‘time table index’, ‘auto service status change’, ‘main supervisor’ and ‘sub supervisor’ are assigned to the ACD Group.
- [Member Management] menu – members of the ACD group are managed. Adding members to the ACD Group or deleting members from the ACD Group is possible.

To add members to the ACD Group:

1. Input the desired Station range to add.
2. Click **[Add]** button.

To delete members from the ACD Group:

1. Input the desired Station range to delete.
2. Click **[Del]** button or check the checkbox of members to be deleted.
3. Click the **[Delete Checked Member]** button.

Table 1.5.6.10-2 ACD GROUP ASSIGNMENT

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|--|--|---------------|
| Group Name | Determines the name of group. | Max. 16 characters | - |
| Service Status | Group Status | 0. Not-Service 1. Normal 2. Forward 3. Night 4. Holiday | Not-Service |
| Tenant Number | Assigns a tenant of station group. | 1-9 (MG-300) 1-5 (MG-100) | 1 |
| Time Table Index | Time table index | 1-9 | 1 |
| Auto Service Status Change | Group Status change option for Automatically change with time table or Manually by Supervisor. | 0. Manual Change 1. Night Auto Change 2. Holiday Auto Change 3. Night / Holiday Auto Change | Manual Change |
| Main Supervisor | Main Supervisor in a ACD Group | | |
| Sub Supervisor | 3 Sub-Supervisor in a ACD Group | Sub1 Sub2 Sub3 | |
| Member | Assigns stations as members of an ACD group. | | - |

1.5.6.11 ACD Group Attributes – PGM Codes 213–214

Selecting ACD Group Attributes will display the page shown, Figure 1.5.6.11-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Attributes data.

Figure 1.5.6.11-1 ACD Group Attributes

Table 1.5.6.11-1 ACD GROUP ATTRIBUTES (ACD Call Handling – PGM 213)

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|---|--|--------------|
| Group Forward Destination | When ACD Group status is Group Forward Status, all of ACD call will be forwarded to this entry assigned destination. | | |
| Night Service | This entry defines how to reroute ACD call when group status is Night Status. | 0: Release Call 1: Night Announcement. 2: Forward Destination | Release Call |
| Night Forward Destination | This entry defines the forward destination for night mode. When Night Service type is Forward Destination, this destination will be applied. | | |
| Holiday Service | This entry defines how to reroute ACD call when group status is Holiday Status. | 0: Release Call 1: Holiday Announcement. 2 Forward Destination | Release Call |
| Holiday Forward Destination | This entry defines the forward destination for holiday mode. When Holiday Service type is Forward Destination, this destination will be applied. | | |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|--|---|--------------|
| Overflow Service | This entry defines how to reroute ACD call when group status is Overflow. | 0: Release Call 1: Overflow Announcement. 2: Forward Destination | Release Call |
| Overflow Forward Destination | This entry defines the forward destination for overflow service. When Overflow Service type is Forward Destination, this destination will be applied. | | |
| MAX Queuing Count | This entry defines Max. queuing call count. If queued ACD Call count is over this count, ACD group status will be changed to Overflow Status. | 00-99 | 10 |
| Queuing Announcement Service Step | This entry defines queuing announcement play service step. One ACD Group can have max. 5 announcements for queuing ACD Call. | 1 – 5 | 1 |
| Repeat Announcement Count | This entry defines total queuing announcement repeat service count. If this entry is defines as Three Times, Queuing Announcements will be played three times from 1 st to defined Step. And then from Repeat Position Queuing Announcements will be restarted from Repeat Position to defined step until Repeat Count. | 0: No Repeat 1: One Time 2: Three Times 3: Five Times 4: Ten Times 5: Twenty Times | No Repeat |
| Repeat Announcement Start Position | This entry defines Repeat Announcement Start Position. | 1 – 5 | 1 |
| Forward Service After Queuing | This entry defines reroute usage when all queuing announcements are over. | 0: Release Call 1: Forward Destination | Release Call |
| Forward Destination After Queuing | This entry defines the forward destination when all queuing announcements are over. | 0: N/A 1: Station Number 2: Station Group 3: ACD Group 4: Digits | N/A |
| Agent No-Answer Service | This entry defines what to do when an ACD agent does not answer an ACD call. 1. Not use 2. Forward Call to No-Answer Forward Destination: call will be forwarded to defined destination. 3. Agent DND State Change: Agent state will be changed automatically to DND state. 4. Agent DND State Change & Forward Call: Agent state will be changed to DND state, and ACD call will be forwarded to defined destination. | 1. Not use 2. Forward Call to No-Answer Forward Destination 3. Agent DND State Change 4. Agent DND State Change & Forward Call | Not use |
| No-Answer Forward Destination | When Agent No-Answer Service option is Forward Call to No-Answer Forward Destination, this destination will be applied. | 1. N/A 2. Station Number 3. Station Group 4. ACD Group 5. Digits | N/A |

Table 1.5.6.11-2 ACD GROUP ATTRIBUTES (PGM 214)

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|--|--------------|
| Password Check When Service Mode Changed | This entry defines whether to check the supervisor password when supervisor change group status. | 1: On 0: Off | Off |
| Agent-Agent Call Restriction | This entry defines agent to agent call restriction. | 0: Allow 1: Direct call 2: Forward call | Allow |
| Agent Work Mode Expired Time | This entry defines wrap up timer of Agent Work State. | 001-240 | 60 |
| Agent Auto Work Mode | This entry defines when change the agent work state. (It is applied, when only agent has auto-work option) 1 CALL: after conversation, agent state will be changed to work state. 2 CALL, RING: after conversation or after ringing, agent state will be changed to work state. 3 CALL, OG: after conversation or after make outgoing call, agent state will be changed to work state. 4 CALL, RING, OG: after conversation or after ringing or after make outgoing call, agent state will be changed to work state. | 0: Call 1: Call, Ring 2: Call OG 3: Call, Ring, OG | Call |
| Announcement Usage when Incoming CO Call | This entry defines usage of Announcement when agent answers incoming ACD Call. | 1: On 0: Off | Off |
| Queuing Count Display | This entry defines display of Queuing count of ACD call. | 1: On 0: Off | Off |
| Queue Count Display Interval | This entry defines display interval seconds of Queuing count of ACD call. | 0: Real Time 1: 10sec 2: 20sec 3: 30sec 4: 40sec 5: 50sec 6: 60sec | Real Time |
| Password Check when Agent Log-In | This entry defines whether to check the password when agent log-in. | 1: On 0: Off | Off |
| Agent State when Agent Log-In | This entry defines the default Agent State option when agent log-in. | 0: Ready state 1: DND state 2: Work state | Ready state |
| Auto Answer Use when Agent Log-In | This entry defines usage of Agent Auto Answer option when agent log-in. | 1: On 0: Off | Off |
| Auto Work-Mode Use when Agent Log-In | This entry defines usage of Agent Auto Work option when agent log-in. | 1: On 0: Off | Off |
| Handset Mode when Agent Log-In | This entry defines usage of Agent Headset option when agent log-in. | 0: Headset mode 1: Handset Mode 2: Ear-Mic. Mode 3: Bluetooth mode | Headset mode |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|---|---|-----------------------------|
| Handset Mode when Agent Log- Out | This entry defines usage of Agent Headset option when agent log-out. | 0: Handset mode 1: Headset Mode 2: Ear-Mic. Mode 3: Bluetooth mode 4: No Change | Handset Mode |
| Call Restriction when Agent Log- Out | This entry defines restriction of Logout State Agent. | 0: Not use 1: CO outgoing 2: All call | Not use |
| Answer Time when Incoming CO Call | This entry defines when to connect to incoming CO call after it is queued. If this value is 'When Queued to ACD group', incoming call is connected as soon as it is queued to ACD group. And ACD group announcement can be provided. If this value is 'When Agent Answers', incoming call is not connected until an agent answers the call. | 0: When Queued to ACD group 1: When Agent Answers | When Queued to ACD group |
| Information Data Print Usage | This entry defines usage of ACD Call Traffic Information data Print or Not. If this value is On, ACD Call Traffic data will be printed through the Call Information-Print Port in PGM 231. | 1: On 0: Off | Off |
| Information Data Print Interval | This entry defines print interval seconds of Information Traffic data. | 001-250 | 001 (10sec) |
| Information Data Clear After Print | If this value is ON, after print Information traffic data, previous data will be deleted | 1: On 0: Off | Off |

1.5.6.12 ACD Group Announcement – PGM Code 215

Selecting ACD Group Attributes will display the page shown, Figure 1.5.6.12-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Announcement data.

The screenshot shows the iPECS web administration interface. The top header includes the iPECS logo, version information (KPL OFFICE, iPECS-MG/GS55M-A54s FEB/10, Boot Version-1.04N DEC/09), and a 'Find PGM' button. The main navigation sidebar on the left lists various configuration options, with 'Station Group Data' selected. The top header has tabs for 'Administration', 'S/W Upgrade', and 'System Management'. The main content area is titled '[ACD Group Announcement Assignment]' and contains a form to enter an ACD Group Number (600-619) and a 'Load' button. Below the form is a table with 9 rows of announcement data.

| Index | Name | Tone Type | Tone Time (1-600)sec | Tone Port (1-19(PGM 264)) | Prompt/Ann. No (1-255/1-100(PGM 259)) | Prompt/Ann. Repeat (0-100) | Prompt/Ann. Interval (0-100)sec | CCR Service During Announcement |
|-------|---------------------------|--------------|----------------------|---------------------------|---------------------------------------|----------------------------|---------------------------------|---------------------------------|
| 1 | 1st Announcement | Announcement | 10 | | 10 | 1 | 0 | OFF |
| 2 | 2nd Announcement | Announcement | 10 | | 11 | 1 | 0 | OFF |
| 3 | 3rd Announcement | Announcement | 10 | | 12 | 1 | 0 | OFF |
| 4 | 4th Announcement | Announcement | 10 | | 13 | 1 | 0 | OFF |
| 5 | 5th Announcement | Announcement | 10 | | 14 | 1 | 0 | OFF |
| 6 | Night Announcement | Announcement | 10 | | 15 | 1 | 0 | OFF |
| 7 | Overflow Announcement | Announcement | 10 | | 16 | 1 | 0 | OFF |
| 8 | Holiday Announcement | Announcement | 10 | | 17 | 1 | 0 | OFF |
| 9 | Agent Answer Announcement | Announcement | 5 | | 18 | 1 | 0 | OFF |

Figure 1.5.6.12-1 ACD Group Announcement

There 9 types Announcements are defined.

1. 1st Queuing Announcement
2. 2nd Queuing Announcement
3. 3rd Queuing Announcement
4. 4th Queuing Announcement
5. 5th Queuing Announcement
6. Night announcement
7. Holiday announcement
8. Overflow Announcement
9. Agent Answering Announcement.

Table 1.5.6.12-1 ACD GROUP Announcement (PGM 215)

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|---|-------------|
| Tone Type | Designates the Tone type | 01: Normal Tone 02: VMIB Prompt 03: VMIB Announcement 04: Internal MOH 05: External MOH 06-09: VMIB MOH 1/2/3/4 (MG 300) 10-14: SLT MOH 1-5 | Normal Tone |
| Tone Time | Determines the amount of time tone is provided. | 1-600 | 10 |
| Tone Port | Tone port index of PGM 264. The cadence of tone port may be changed by using Web-Admin | 1-19 | |
| Prompt / Announcement NO. | The VMIB Prompt or Announcement number when tone type is VMIB Prompt or announcement. | 1-255 | |
| Prompt / Announcement Repeat during Tone Time | The VMIB Prompt or Announcement Repeat number when tone type is VMIB Prompt or announcement. | 0-100 | 1 |
| Prompt / Announcement Interval Time | The VMIB Prompt or Announcement Repeat interval when VMIB Prompt or announcement. Repeat is assigned. | 0-100 | 0 |
| CCR Usage | This option defines the usage of CCR feature during ACD group announcement. | 1: On 0: Off | 0:Off |

1.5.6.13 ACD Agent State & Priority

Selecting ACD Agent State & Priority will display the page shown, Figure 1.5.6.13-1. This page displays the state and the priority of ACD agent.

iPECS

Administration

S/W Upgrade

System Management

iPECS-MG/GSUM-1 /A/ MAY/11
Boot Version-1,0A/ JAN/11
OS Version-1,0A/ JUL/10

Find PGM

Hide Menu

Pre-Programmed Data

Numbering Plan

Station Port Data

Station Number Data

CO Line Data

Station Group Data

Station Group Assign(200)[N]

Station Group Attribute(201~202)[N]

Voice Mail Group(203)[N]

Call Pick-Up Group(204)[N]

Page Group(205)[N]

Command Conference Grp(205)[N]

PTT Group(206)[N]

Interphone Group(209)[N]

Pilot Hunt Group(210~211)[N]

ACD Group Assignment(212)[N]

ACD Group Attribute(213~214)[N]

ACD Group Announcement(215)[N]

ACD Agent State & Priority[N]

System Data

Table Data

[ACD Group Agent State & Priority]

Station Order : [1-50][51-100][101-120]

| Uncheck All | Order | Station Number | Group Number | Member Type | Member State | Priority |
|-------------------------------------|-------|----------------|--------------|----------------|--------------|----------|
| <input checked="" type="checkbox"/> | 1 | 100 | 600 | SUPERVISOR | | 10 |
| <input checked="" type="checkbox"/> | 2 | 101 | | | | 10 |
| <input checked="" type="checkbox"/> | 3 | 102 | | | | 10 |
| <input checked="" type="checkbox"/> | 4 | 103 | | | | 10 |
| <input checked="" type="checkbox"/> | 5 | 104 | 600 | Sub-Supervisor | | 10 |
| <input checked="" type="checkbox"/> | 6 | 105 | 600 | Sub-Supervisor | | 10 |
| <input checked="" type="checkbox"/> | 7 | 106 | | | | 10 |
| <input checked="" type="checkbox"/> | 8 | 107 | | | | 10 |
| <input checked="" type="checkbox"/> | 9 | 108 | | | | 10 |
| <input checked="" type="checkbox"/> | 10 | 109 | | | | 10 |
| <input checked="" type="checkbox"/> | 11 | 110 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 12 | 111 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 13 | 112 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 14 | 113 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 15 | 114 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 16 | 115 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 17 | 116 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 18 | 117 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 19 | 118 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 20 | 119 | 600 | Member Agent | Log Out | 10 |
| <input checked="" type="checkbox"/> | 21 | 120 | | | | 10 |

Figure 1.5.6.13-1 ACD Group Agent State & Priority

Table 1.5.6.13-1 ACD Group Agent State & priority

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|--|---------|
| Station Number | | | |
| Group Number | When a station belongs to an ACD group, The ACD group number will be displayed. | | |
| Member Type | When a station belongs to an ACD group Its member type will be displayed. | Supervisor, Sub-supervisor, Member Agent | |
| Member State | When a station belongs to an ACD group, Log in/ Log-out state will be displayed. | | |
| Priority | When station is member of ACD Group, this value will be used as the priority of agent. | 1-20 | 1 |

1.5.7 System Data

Selecting the System Data program group returns the sub-menu displayed, Figure 1.5.7-1



Figure 1.5.7-1 System Data

1.5.7.1 System Timers I to III – PGM Codes 220–222

Selecting System Timer will display the page shown, Figure 1.5.7.1-1.

| Order | Timer | Value | Range |
|----------------|-----------------------------------|----------------|--------|
| PGM 220 | | | |
| 1 | CO-to-CO Transfer Timer | 30 (<+1sec) | 0-300 |
| 2 | HOT-DESK Logout Timer | 0 (<+1min) | 0-1440 |
| 3 | ACNR Pause Timer | 10 (<+1sec) | 1-300 |
| 4 | Paging Timeout Timer | 15 (<+1sec) | 0-300 |
| 5 | Pause Timer | 3 (<+1sec) | 1-9 |
| 6 | Voice Mail Pause Timer | 3 (<+1sec) | 1-9 |
| 7 | VMIB-Message Minimum Record Timer | 4 (<+1sec) | 1-9 |
| 8 | VMIB-Message Maximum Record Timer | 60 (<+1sec) | 1-999 |
| 9 | Call Wait Warning Timer | 30 (<+1sec) | 10-180 |
| 10 | Camp-On Warning Timer | 30 (<+1sec) | 10-180 |
| 11 | CCR Inter-Digit Timer | 3 (<+1sec) | 1-30 |
| 12 | Web Password Guard Timer | 99 (<+1min) | 1-999 |
| 13 | UCS Status Check Timer | 3 (<+1sec) | 1-10 |
| PGM 221 | | | |
| 1 | SLT Hook Switch Bounce Timer | 1 (<+100msec) | 1-25 |
| 2 | SLT Maximum Hook Flash Timer | 2 (<+100msec) | 1-25 |
| 3 | SLT Minimum Hook Flash Timer | 20 (<+10msec) | 0-250 |
| 4 | LCO Ring On Timer | 2 (<+100msec) | 1-9 |
| 5 | LCO Ring Off Timer | 60 (<+100msec) | 10-150 |
| 6 | LCO Release Guard Timer | 30 (<+100msec) | 1-150 |
| PGM 222 | | | |
| 1 | Door Open Timer | 20 (<+100msec) | 5-99 |
| 2 | Message Wait Alert Tone Timer | 0 (<+min) | 0-60 |
| 3 | Inter Digit Timer | 30 (<+sec) | 0-300 |
| 4 | Incoming CO Inter Digit Timer | 15 (<+sec) | 1-60 |

Figure 1.5.7.1-1 System Timers I to III

A number of timers can be assigned to control and affect various features and functions of the system. The following Tables describe the timers and any input required.

Table 1.5.7.1-1 System Timers

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|--|----------------------------|---------|
| CO-to-CO Transfer Timer | Determines the waiting time for answer when the CO line is transferred to another CO line. If not answered within this time, the transferred CO call is routed to no-answer destination of incoming CO Alternative (PGM 169) or Outgoing CO Alternative (PGM 173). | 000~300 (seconds) | 030 |
| HOT-DESK Logout Timer | Logged-in Hot-Desk agent will be logged out after this timer automatically. | 0000~ 1440 (minutes) | 00 |
| ACNR Pause Timer | Determines the time between ACNR attempts. | 005~300 (seconds) | 030 |
| Paging Time out Timer | Determines the maximum duration of a page after which the caller and Page Zone are released. | 000~300 (seconds) | 15 |
| Pause Timer | Determines the time for Pause which can be used in Speed Dial or other automatically dialed digits sent to the PSTN. | 1~9 (seconds) | 3 |
| Voice Mail Pause Timer | When the system sends a "Pause" to Voice Mail using In-band signals, the Pause interval is defined by this timer. | 1~9 (seconds) | 3 |
| VMIB-Message Minimum Record Timer | Sets the minimum duration allowed for a voice mail message in the system's VMIB. Messages shorter than this period are not stored. | 1~9 (seconds) | 4 |
| VMIB-Message Maximum Record Timer | Sets the maximum duration allowed for a voice mail message in the system's VMIB. After this timer expires, the recording will be forced to stop automatically. | 000~999 (seconds) | 60 |
| Call Wait Warning Timer | Determine the call-wait indication tone repeat time. | 010~1800 (seconds) | 030 |
| Camp-On Warning Timer | Determine the camp-on indication tone repeat time. | 010~1800 (seconds) | 030 |
| CCR Inter-Digit Timer | Inter-digit timer used with Customer Call Routing function. External user should dial a next digit within this timer. After this timer expires, CCR feature will be performed by analyzing input digits. | 01~30 (seconds) | 03 |
| Web Password Guard Timer | Determine automatic log-out time for Web Admin. If no data packets are received within this time a password check will be initiated by the system. | 001~999 (minutes) | 5 |
| UCS Status Check Timer | Determine the time of check period UCS status. | 01-10 (seconds) | 03 |
| SLT Hook Switch Bounce Timer | Determines the amount of time the System considers an actual state change in the hook-switch and not a momentary contact bounce. | 01~25 (100 msec.) | 01 |
| SLT Maximum Hook Flash Timer | Sets the maximum time an SLT user can depress the hook-switch for a Flash signal. If the hook-switch is pressed for more than this time, system will treat it as on-hook. | 01~25 (100 msec.) | 05 |
| SLT Minimum Hook Flash Timer | Sets the minimum time an SLT user must depress the hook-switch for a Flash signal. If the hook-switch is pressed for more than this time and is released before SLT maximum hook flash timer, system will regard it as hook-flash. | 000~250 (10 msec.) | 020 |

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|---|-----------------------|---------|
| LCO Ring On Timer | Sets the minimum 'ON' time to detect the incoming LCO ring from public exchange (PX). If the ring 'ON' signal is maintained for this time, System will detect it as an incoming LCO ring. | 1~9 (100 msec.) | 2 |
| LCO Ring Off Timer | Sets the maximum 'OFF' time to detect the release of incoming LCO ring from public exchange (PX). If the ring 'OFF' signal is maintained for this time, System will detect it as a release of incoming LCO ring. | 010~150 (100 msec) | 060 |
| LCO Release Guard Timer | When an analog CO Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO circuitry to idle. | 001~150 (100 msec) | 010 |
| Door Open Timer | Sets the minimum contact closure time required to activate the contact assigned as a door open contact. | 05~99 (100 msec.) | 20 |
| Message Wait Alert Tone Timer | A phone user will receive periodic reminder tones of a message waiting at intervals based on this timer. | 00~60 (minutes) | 00 |
| Inter Digit Timer | Sets the maximum allowed time between user-dialed digits. At expiration, the user will receive an error-tone. | 000~300 (seconds) | 015 |
| Incoming CO Inter Digit Timer | Sets the maximum allowed time between dialed digits from the Incoming CO. | 01-60 (seconds) | 15 |
| Normal CO Ring No answer timer | No answer timer for Normal CO ring. If this timer expires, the incoming call will be served as no answer case. | 001-600 (seconds) | 30 |
| DID/DISA No answer timer | No answer timer for DID/DISA CO ring. If this timer expires, the incoming DID call will be served as no answer case. | 001-600 (seconds) | 30 |
| CO Recall Ring No answer timer | No answer timer for CO recall ring | 001-600 (seconds) | 30 |
| CO Forward Ring No answer timer | No answer timer for CO Forward ring | 001-600 (seconds) | 30 |
| CO Transfer Ring No answer timer | No answer timer for CO Transfer ring | 001-600 (seconds) | 30 |
| R2 Forward Signal Detect Timer | For R2 incoming call, this R2 forward signal detect timer waits for receiving R2 forward signal. If this timer expires, R2 signaling is finished invalid. | 1-254 (seconds) | 14 |
| Duplicated Digit Analysis Timer | Sets the duplication digit analysis timer. It allows duplicated numbering plan. | 00-30 (seconds) | 02 |

1.5.7.2 System Attributes – PGM Code 223

Selecting System Attributes will display the System Attributes data entry page, Figure 1.5.7.2-1.

| Order | Attribute | Value | Range |
|-------|---|---------|--------------------|
| 1 | Web Admin Password Encryption | OFF | |
| 2 | Pulse Dial Break/Make Ratio | 66/33 | |
| 3 | Voice Mail SMDI Interface | OFF | |
| 4 | Use Strong Password | OFF | minimum 6 digits |
| 5 | Network Time/Date | Disable | |
| 6 | CLI Print | ON | |
| 7 | TLS for Web | OFF | |
| 8 | Web Server Port | 80 | 00001-65535 |
| 9 | Database Auto USB download | OFF | |
| 10 | Database Auto Download Hour | 0 | 00-23 |
| 11 | UCS Server IP Address | 0.0.0.0 | IP address |
| 12 | CTI Server IP Address | 0.0.0.0 | IP address |
| 13 | MODEM Associated CO Line | 0 | |
| 14 | IP Phone Registration by STA Number | ON | |
| 15 | Analog Line BUSY Tone Detection Times | 4 | |
| 16 | Analog Line ERROR Tone Detection Times | 5 | |
| 17 | PSU FAN Alarm | OFF | |
| 18 | Line Fault Alarm | ON | |
| 19 | Traffic Operation | OFF | |
| 20 | Enhanced VM Features | ON | New Prompts Needed |
| 21 | DB Protection Option(When DB is initialized) | OFF | |
| 22 | IPCR Server IP Address (Currently : Disconnected) | 0.0.0.0 | IP address |
| 23 | SIP EXT Number for IPCR | | Station number |
| 24 | SIP CO Use 1st Domain for Default | OFF | |

Figure 1.5.7.2-1 System Attributes

System Attribute programs help to define settings that affect system-wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 1.5.7.2-1 for a description of the Attributes, LCD displays and the data entries required.

Table 1.5.7.2-1 System Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|---|--|----------|
| Web Admin Password Encryption | The Web Admin password can be encrypted for security using RC-6 block encryption. A Java VM must be installed on the user's PC. | 0: OFF 1: ON | OFF |
| Pulse Dial Break/Make Ratio | The break/make ratio for pulse dialing (10pps) through analog CO line. | 0: 60/40 1: 66/33 2: 50/50 | 1: 66/33 |
| Voice Mail SMDI Interface | If it is set to ON, the system interfaces SMDI protocol with external Voice Mail. If 'OFF', system interfaces In-band message with external Voice Mail. | 0: OFF 1: ON | OFF |
| Use Strong Password | If it is set to ON, system does not allow simple password.(including number, character, more than 8 digits) | 0: OFF 1: ON | ON |
| Network Time/Date | The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use DISABLE. | 0: DISABLE 1: ISDN CLOCK 2: NTP | DISABLE |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---|--|--|---------|
| CLI Print | If is set to; ON', CLI information is printed. | 0: OFF 1: ON | OFF |
| TLS for Web | Enables Transport Layer Security (TLS) for Web access. | 0: OFF 1: ON | OFF |
| Web Server Port | Web Server port number. | 1-65535 | 80 |
| Database Auto USB download | Determines when system database downloads to USB automatically. | OFF 1: MON 2: TUE 3: WED 4: THU 5: FRI 6: SAT 7: SUN 8: Everyday | OFF |
| Database Auto Download Hour | The time for system database download to USB automatically. | 00-23 | 00 |
| UC Server IP Address | UC Server IP Address. | | |
| CTI Server IP Address | CTI Server IP Address. | | |
| MODEM Associated CO Line | MODEM Associated CO Line. | | 0 |
| IP Phone Registration by STA Number | Determines if IP phone can be registered only by station number or not. | 0: OFF 1: ON | ON |
| Analog Line BUSY Tone Detection Times | It defines detection count for busy tone. | 3-9 | 3 |
| Analog Line Error Tone Detection Times | It defines detection count for error tone. | 3-9 | 4 |
| PSU FAN Alarm | If it is set to ON, system provides alarm ring when a FAN is broken. | 0: OFF 1: ON | ON |
| Line Fault Alarm | If it is set to ON, system provides alarm ring when Line is fault. | 0: OFF 1: ON | ON |
| Traffic Operation | If it is set to ON, system can save and print traffic information. | 0: OFF 1: ON | OFF |
| Enhanced VM Features | Enables or disables the voice mail features that need the new prompt set from S/W version 1.6 | 0: OFF 1: ON | OFF |
| DB Protection Option | When DB is initialized, selected information is not initialized. And also, this PGM is not initialized. 0.OFF: All database is initialized 1. VM Database: the Database related to VM (VMIB) is not initialized. And VMIB does not clear physical user message. | 0:OFF 1: VM Database | OFF |
| DB Protection Option | When DB is initialized, selected information is not initialized. And also, this PGM is not initialized. 0.OFF: All database is initialized 2. VM Info: the Database related to VM (VMIB) is not initialized. And VMIB does not clear physical user message. | 0:OFF 1: VM DB | OFF |
| IPCR Server IP Address | The IP address of computer in which IPCR server application is installed. | 0.0.0.0 | |
| SIP EXT Number for IPCR | This SIP extension number is assigned to IPCR server. | SIP extension number | |
| SIP CO Use 1 st Domain for Default | Enable or disable the default usage of SIP CO 1 st domain. | 0: OFF 1: ON | ON |

1.5.7.3 System Authorization Code – PGM Code 225

System Authorization code table consists of 2000 entries and each entry consists of 8 fields: ID, Password, Day COS, Night COS, Timed COS, Digit Conversion Table, Tenant Number, CO Access.

By default, System Authorization Codes are not assigned at all.

NOTE

There can be no duplicate ID.

Selecting System Authorization Code will display the System page shown, Figure 1.5.7.3-1.

Figure 1.5.7.3-1 System Authorization Code

Table 1.5.7.3-1 System Authorization Code Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|----------------|---------|
| ID | Defines the ID associated with the System Authorization code bin. *. This ID can be also printed for SMDR. | Max. 7 digits | None |
| Password | Defines the Password associated with ID. | Max. 12 digits | None |
| Day COS | Defines Day COS associated with the System Authorization code. | 0-15 | 0 |
| Night COS | Defines Night COS associated with the System Authorization code. | 0-15 | 0 |
| Timed COS | Defines Timed COS associated with the System Authorization code. | 0-15 | 0 |

Table 1.5.7.3-1 System Authorization Code Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|------------------------|---|--|---------|
| Digit Conversion Table | Defines Digit Conversion Table Index to use after authorization success. *. This can be supported when Dial Digit Process is type 1 (PGM281-3). | 1-9, None | None |
| Tenant No | Defines Tenant number associated with the System Authorization code. If this is not assigned, this authorization code can be applied to all tenants. | 1-9, None(MG-300) 1-5, None(MG-100) | None |
| CO Access | Defines CO Access associated with the System Authorization code. This is set to ON, this authorization code can be used for DISA CO Access. | ON/OFF | OFF |

1.5.7.4 System Password – PGM Code 226

Selecting System Password will display the page shown, Figure 1.5.7.4-1.

The screenshot shows the iPECS web administration interface. The sidebar on the left lists various system settings, with 'System Password(226)[N]' highlighted. The main window displays the 'Password Change' configuration page. It has a tabbed interface with 'Basic Password' and 'Additional Password'. The 'Basic Password' tab is active, showing three password change sections: User ID, Admin ID, and Maint ID. Each section includes a selection checkbox, an ID input field, and three password input fields (Current, New, Confirm). A 'Save' button is located at the bottom right of the form.

Figure 1.5.7.4-1 System Password (Basic)

This screenshot shows the 'Additional Password' configuration page in the iPECS web administration interface. Similar to the basic page, it has a sidebar with 'System Password(226)[N]' selected. The main window shows the 'Additional Password' tab, which contains three sections for User 2, User 3, and Admin 2/3. Each section includes a selection checkbox, an ID input field, and three password input fields (Current, New, Confirm). A 'Save' button is at the bottom right.

Figure 1.5.7.4-2 System Password (Additional)

Access to the system database and maintenance functions can be protected by ID(up to 16 digits) & passwords (up to 12 digits). Three basic sets of ID & password can be defined: User, Admin and Maintenance and four additional sets of ID & password can be defined: User2, User3, Admin2, Admin3.

Maintenance ID & password – has full and unlimited access to the database and maintenance functions of the system.

User and Admin ID & password – have access to database items defined in Web Admin.

NOTE

There are no default passwords.

Table 1.5.7.4-1 Password Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|--|-------------------|---------|
| User ID (2/3) & Password | Configurable database access in Web admin and cannot access Keyset admin. | ID: 16 PWD: 12 | none |
| Admin ID (2/3) & Password | Configurable database access in Web Admin. Basic Admin Password can access Keyset Admin. | ID: 16 PWD: 12 | none |
| Maint ID & Password | Full and unlimited access to database and maintenance functions. | ID: 16 PWD: 12 | none |

1.5.7.5 Alarm Attributes – PGM Code 227

Selecting Alarm Attributes will display the page shown, Figure 1.5.7.5-1.

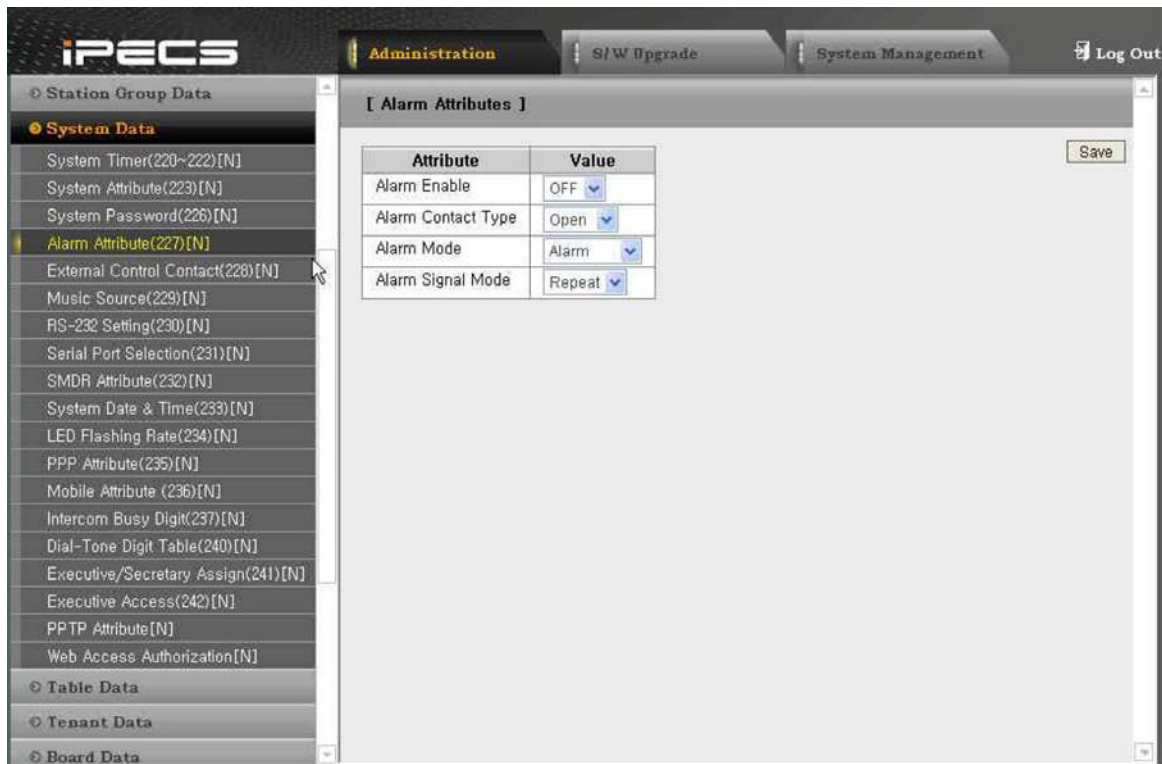


Figure 1.5.7.5-1 Alarm Attributes

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. The Alarm Signal sent to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Table 1.5.7.5-1 a description of the features, the data entries required and LCD displays for each attribute.

Table 1.5.7.5-1 Alarm Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|--------------------------|---------|
| Alarm Enable | Enables the external contact monitoring circuitry. | 0: OFF 1: ON | OFF |
| Alarm Contact Type | Establishes the contact state that will activate the Alarm, close or open. | 0: Open 1: Close | Open |
| Alarm Mode | The contact can be treated to function as a doorbell instead of an alarm. | 0: Door-Bell 1: Alarm | Alarm |
| Alarm Signal Mode | The assigned stations will receive an alarm tone Repeating signal or single burst (Once). | 0: Once 1: Repeat | Repeat |

1.5.7.6 External Control Contacts – PGM Code 228

Selecting External Control Contacts will display the page shown, Figure 1.5.7.6-1.

| Attribute | Value |
|--------------------------|---|
| External Control Contact | <input checked="" type="radio"/> Not Use |
| | <input type="radio"/> LBC |
| | <input type="radio"/> Door Open |
| | <input type="radio"/> External Control Device 1 |
| Save | |

Figure 1.5.7.6-1 External Control Contacts

The MPB includes 1 contact, which can be used to control external devices. Contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station receives an external call.

NOTE

For LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UA calls and will ignore any station assignment. The contact may alternatively activate as a Door Lock Release contact, when the External Page Zone is accessed.

1.5.7.7 Music Sources – PGM Code 229

Selecting Music Sources will display the page shown, Figure 1.5.7.7-1.

| Attribute | Value |
|---------------------|---------|
| ICM BOX Music Type | No BGM |
| Internal Music Type | ROMANCE |

VMIB MOH/BGM TYPE Announcement Number (01~70)

| | |
|------------------|--|
| VMIB 1 (Slot 18) | |
| VMIB 2 (Slot ..) | |
| VMIB 3 (Slot ..) | |
| VMIB 4 (Slot ..) | |

| SLT MOH TYPE | Station Number |
|--------------|----------------|
| SLT MOH 1 | |
| SLT MOH 2 | |
| SLT MOH 3 | |
| SLT MOH 4 | |
| SLT MOH 5 | |

Save

Figure 1.5.7.7-1 Music Sources

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. iPECS-MG MPB provides one (1) music input. Additionally, a VMIB announcement may be recorded and played as MOH, and the SLT port on SLIB is used as MOH.

Table 1.5.7.7-1 Music Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------|--|---|---------|
| ICM Box Music Type | Assigns the music source for ICM BOX. | 00: NO BGM 01: Internal Music , 02: External Music 03: VMIB BGM 1 04: VMIB BGM 2 05: VMIB BGM 3 06: VMIB BGM 4 07: SLT MOH 1 08: SLT MOH 2 09: SLT MOH 3 10: SLT MOH 4 11: SLT MOH 5 | NO BGM |
| Internal Music Type | Assigns the music for internal MOH. | 00: Romance 01: Turkish March 02: Green Sleeves 03: Fur Elise 04: Carmen 05: Waltz 06: Pavane 07: Siciliano 08: Sonata 09: Spring 10: Campanella 11: Badinerie 12: Blue Danube | |
| VMIB MOH/BGM Type | Assigns the system announcement to be used for VMIB MOH X. | 01-70 | |
| SL: T MOH Type | Assigns the SLT port for SLT MOH. | | |

1.5.7.8 RS-232 Port Settings – PGM Code 230

Selecting RS-232 Port Settings will display the page shown, Figure 1.5.7.8-1.

| Attribute | Value | Range |
|---------------|-------------|---------|
| Baudrate | 115200 BAUD | |
| Page Break | OFF | |
| Line Per Page | 66 | 001-199 |
| XON/XOFF | XOFF | |

Save

Figure 1.5.7.8-1 RS-232 Port Settings

The system has one RS-232 serial port located on the MPB. Certain port characteristics are programmable, such as the baud rate, RS-232 control, and page settings. Refer to the following Table for a description of the settings and the data entries required.

Table 1.5.7.8-1 RS-232 Port Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------|--|--|---------|
| Baud rate | Establishes the BAUD rate for the RS-232 serial port. | 1: 9600 2: 19200 3: 38400 4: 57600 5: 115200 | 115200 |
| Page Break | System can send this command over the serial port at the end of each page. | 0: OFF 1: ON | OFF |
| Line Per Page | This entry is used to set the page length. The system will send the number of lines before sending the page break. | 001-199 | 66 |
| XON/XOFF | Enables XON/XOFF protocol. | 0: XOFF 1: XON | XOFF |

1.5.7.9 Serial Port Function Selections – PGM Code 231

Selecting Serial Port Function Selection will display the page shown, Figure 1.5.7.9-1.

| Attribute | Value |
|--------------------------------|-------------|
| On-line SMDR Print | Serial Port |
| Off-line SMDR/Statistics Print | Serial Port |
| SMDI Print | Serial Port |
| Call Information Print | Serial Port |
| Traffic Print | Serial Port |
| Trace Print | Serial Port |
| ADMIN Data Print | Serial Port |

Save

Figure 1.5.7.9-1 Serial Port Function Selections

The system has one RS 232 serial port located on the MPB. MODU (Modem Unit) can be installed on MPB as an optional board. Also, the system can employ IP over 5 TCP channels for the output of various system information.

Each output function is assigned a Serial port, MODU or TCP channel that is used to output the information. In Addition, a TCP port must be assigned when a function is defined to use a TCP channel.

NOTE

Each function can be defined to use only one output. Refer to the following Table for a description of the selections and the data entries required.

Table 1.5.7.9-1 Serial Port Function Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--------------------------------|---|---|---------|
| On-line SMDR Print | Defines the serial port or TCP channel used for the On-line SMDR. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |
| Off-line SMDR/Statistics Print | Defines the serial port or TCP channel used for Off-line SMDR. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |
| SMDI Print | Defines the serial port or TCP channel used for the SMDI output. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM 1 |
| Call Information Print | Defines the serial port or TCP channel used to receive Call Information output. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |
| Traffic Print | Defines the serial port or TCP channel used for the TRAFFIC report output. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |
| Trace Print | Defines the serial port or TCP channel used for the Trace output. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |
| ADMIN Data Print | Defines the serial port or TCP channel used for the ADMIN Report output. | 0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5 | COM |

1.5.7.10 SMDR Attributes – PGM Code 232, 238

Selecting SMDR Attributes will display the page shown, Figure 1.5.7.10-1.

| Attribute | Value | Remark |
|---|---------------------|------------------|
| <input checked="" type="checkbox"/> SMDR Service | On-Line/Off-Line | |
| [SMDR Report Type] | | |
| <input checked="" type="checkbox"/> Outgoing Call Report | ON | |
| <input checked="" type="checkbox"/> Incoming Call Report | ON | |
| <input checked="" type="checkbox"/> Internal Call Report | ON | |
| <input checked="" type="checkbox"/> Outgoing/Incoming Last Call Report | ON | |
| [SMDR Report Option] | | |
| <input checked="" type="checkbox"/> Outgoing Call Report Type | All Call | |
| <input checked="" type="checkbox"/> Outgoing Call Long Distance Digit Counter | 7 | 07-15 |
| <input checked="" type="checkbox"/> Hidden Digit Count | 0 | 0-9 |
| <input checked="" type="checkbox"/> Hidden Digit Position | Right | |
| <input checked="" type="checkbox"/> Station Transfer Charge Rate | Individual Charging | |
| <input checked="" type="checkbox"/> Attendant Transfer Charge Rate | Individual Charging | |
| <input checked="" type="checkbox"/> Second Information in Start Time | ON | |
| <input checked="" type="checkbox"/> Incoming Call Dialed Number Print Option | CLI | |
| <input checked="" type="checkbox"/> Date Mode Print Option | MM-DD-YY | |
| <input checked="" type="checkbox"/> Autho. Number Print as Calling Station | OFF | |
| <input checked="" type="checkbox"/> Additional Information Filed Print | OFF | |
| [SMDR Cost Option] | | |
| <input checked="" type="checkbox"/> Cost Currency Unit | WON | Max 3 characters |
| <input checked="" type="checkbox"/> Cost Per Metering Pulse | 000050 | Must be 6 digits |
| <input checked="" type="checkbox"/> Cost Fraction | 1 | 0-5 |
| <input checked="" type="checkbox"/> Incoming Call Cost Per Minute | 000000 | Must be 6 digits |

Figure 1.5.7.10-1 SMDR Attributes

Station Message Detail Recording (SMDR) is an ASCII output of details on both incoming and outgoing calls. Various SMDR attributes can be assigned including: output records for all calls or long distance (LD) only, call cost per pulse when using call metering, etc. Refer to the following Table for a description of each Attribute, LCD displays and the data entries required.

Table 1.5.7.10-1 SMDR Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------|---|---|---------|
| SMDR | On-Line service enables SMDR information to be printed out in real time. Off-Line service enables SMDR information to be recorded automatically and attendant or administrator can print out or delete it. SMDR Interface service can deliver SMDR information to external application. E-Mail service deliver SMDR information using e-mail at certain times. Combination of several services can be used. | 0: Not Use 1: On-Line 2: Off-Line 3: On-Line/Off-Line 4: SMDR-Interface 5: SMDR E-Mail 6: Off-Line & E-Mail 7: On/Off-Line & E-Mail 8: Interface & E-Mail | Not Use |
| Outgoing Call Report | Outgoing Call Report Option for SMDR Service. If this option is set, outgoing call will be included at SMDR data. | 0: OFF 1: ON | OFF |
| Incoming Call Report | Incoming Call Report Option for SMDR Service. If this option is set, incoming call will be included at SMDR data. | 0: OFF 1: ON | OFF |
| Internal Call Report | Internal Call Report Option for SMDR Service. If this option is set, internal call will be included at SMDR data. | 0: OFF 1: ON | OFF |

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|--|---|---------------------|
| Outgoing / Incoming Lost Call Report | Outgoing or Incoming Lost Call Report Option for SMDR Service. If this option is set, CO lost call will be included at SMDR data. | 0: OFF 1: ON | OFF |
| Outgoing Call Record Type | Determines whether to record all outgoing calls or only Long Distance calls. Long distance calls can be identified by the 'Outgoing Call Long Distance digit count' or 'Long Call Prefix Code'. | 1: Long Distance Call 0: ALL CALL | ALL CALL |
| Outgoing Call Long Distance Digit Counter | Dialed numbers, which exceed the assigned LD digit count, are considered as long distance calls for SMDR. | 07-15 | 07 |
| Hidden Digit Count | For security purposes, digits dialed for an outgoing call can be hidden and replaced with "***". This field defines the number of digits to hide. Below "Hidden Digit Position." Below defines whether leading or trailing digits are hidden. In addition, the station must be assigned for SMDR HIDE (PGM 131-FLEX7). | 0~9 | 0 |
| Hidden Digit Position | When "SMDR DIALED DIGIT HIDDEN" is enabled, this field determines if leading or trailing digits are hidden. | 0: Left 1: Right | Right |
| Station Transfer Charge Rate | Determines where call is charged in the event of a transferred call. 1. Individual Charging: charged to both stations respectively. 2. Transferring Charging: charged to the transferring station. 3. Transferred Charging: charged to the transferred station. | 0: Individual Charging 1: Transferring Charging 2: Transferred Charging | Individual Charging |
| Attendant Transfer Charge Rate | Determines where call is charged in the event of Attendant placing a call and transferring the call. 1. Individual Charging: charged to both stations respectively. 2. ATD Charging: charged to the Attendant. 3. Transferred Charging: charged to the transferred station. | 0: Individual Charging 1: ATD Charging 2: Transferred Charging | Individual Charging |
| Second Information in Start Time | If this option set ON, second information is printed with call start time in SMDR. (MM/DD/YY HH/MM/SS) | 0:OFF 1:ON | ON |
| Incoming Call Dialed Number Print Option | For incoming calls, the system will send the defined data item for "Dialed Number" field. The data item may be CLI, Dialed Number and with Ring Service Time. Note the User dialed number is always provided for an outgoing call. 1. CLI: If there are Incoming call CLI, always CLI will be printed, 2. Dialed Number: Dialed digit from external user will be printed. 3. CLI & Ring Time: CLI data and ringing time will be printed. 4. Dialed Number & Ring Time: Dialed digit from external user and ringing time will be printed. | 0: CLI 1: DIALED NUM 2: CLI & RING 3: DIALED NUM & RING | CLI |

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|--|---------|
| Incoming Call 2nd Dialed Field Print Option | For incoming calls, additional dialed field is supported. The data item may be CLI, Dialed Number and with Ring Service Time. Note the User dialed number is always provided for an outgoing call. 1. NOT-USE 2. CLI: If there are Incoming call CLI, always CLI will be printed, 3. Dialed Number: Dialed digit from external user will be printed. 4. CLI & RING: CLI data and ringing time will be printed. 5. Dialed Number & RING: Dialed digit from external user and ringing time will be printed | 0: Not-Use 1: CLI 2: DIALED NUM 3: CLI & RING 4: DIALED NUM & RING | Not-Use |
| Date Mode Print Option | Date mode print type option in SMDR data. | 1:MMDDYY 0:DDMMYY | MMDDYY |
| Autho. Number Print as Calling Station | When user make outgoing call with authorization, authorization DN number can be printed as calling-station in SMDR data. | 0: OFF 1: ON | OFF |
| Additional Information Filed Print | Additional information can be printed in SMDR data Information: 1. Authorization DN number 2. Physical Station number 3. Transfer Station number 4. Networking related number | 0: OFF 1: ON | OFF |
| Cost Currency Unit | The unit of currency used for call cost can be identified with 3 alpha characters for easy reference. | Max 3 characters | - |
| Cost Per Metering Pulse | When metering is provided by the PSTN, the cost per metering pulse can be assigned. | 6 digits | 000000 |
| Cost Fraction | Determines the position of the decimal in the Cost per Pulse, starting from the right-most digit. | 0~5 | 0 |
| Incoming Call Cost Per Minute | If CO line Metering Type is Time and incoming call is set as report, this metering cost will be applied in every minute. | 6 digits | 000000 |
| Normal Outgoing Call Cost Per Minute | If CO line Metering Type is Time and outgoing call is normal-outgoing, this metering cost will be applied in every minute. Normal-Outgoing call is not Local/Long/International call and not Mobile call. | 6 digits | 000000 |
| Local Call Cost Per Minute | If CO line Metering Type is Time and outgoing call is local call, this metering cost will be applied in every minute. | 6 digits | 000000 |
| Long Call Cost Per Minute | If CO line Metering Type is Time and outgoing call is long call, this metering cost will be applied in every minute | 6 digits | 000000 |
| International Call Cost Per Minute | If CO line Metering Type is Time and outgoing call is international call, this metering cost will be applied in every. | 6 digits | 000000 |
| Dedicated Line Call Cost Per Minute | If CO line Metering Type is Time and used CO line is dedicated line, this metering cost will be applied in every minute. | 6 digits | 000000 |
| Mobile Call Cost Per Minute | If CO line Metering Type is Time and outgoing call is mobile call, this metering cost will be applied in every minute. | 6 digits | 000000 |

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|---|---------------------------------------|-----------------|
| Attendant Warning Tone Service | If this option is enabled and SMDR service type is off-line, the system check free records space. And if free space is less than 1000, warning tone will be served as alarm to Attendant. | 0:OFF 1:ON | OFF |
| SMDR Interface Connection Type | This assigns the port to be used for SMDR Interface (LAN or SIO). | 0:SIO 1:LAN | SIO |
| SMDR Interface Option Length Type | It is SMDR Interface Option field data length option. Flexible Length or Fixed length type can be used for Option data. | 0: Flexible Length 1: Fixed Length | Flexible Length |
| SMTP Mail Server Address | SMTP Mail Server Address. | | |
| SMTP Mail Server Port | SMTP Mail Server Port. | | |
| SMDR Reported Mail Address | Reported SMDR User Mail Address. | Max 64 Characters | |
| SMDR SMTP Mail Server ID | SMTP Mail Server User ID. | | |
| SMDR SMTP Mail Server Password | SMTP Mail Server User Password. | | |
| SMDR SMTP Sender Address | Sender Address of Reported SMDR E-Mail | Max 64 Characters | |
| SMDR Mail Send Weekly Set | Select SMDR Mail Send Day. | N/A (Monday ~ Sunday) | N/A |
| SMDR Mail Send Daily Set | Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day). | 00-23 | 00 |
| SMDR Mail Auto Send Set | If the SMDR buffer is full, the system can automatically send a notification by e-mail. | 0: OFF 1: ON | OFF |
| SMDR Mail Auto Delete Set | Deletes SMDR records after sending e-mail. | 0: OFF 1: ON | OFF |

1.5.7.11 System Date, Time – PGM Code 233

Selecting System Date, Time will display the page shown, Figure 1.5.7.11-1.

The screenshot shows the iPECS web administration interface. On the left is a navigation menu with categories like Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, and Table Data. The 'System Data' category is selected, and 'System Date & Time(233)[N]' is highlighted. The main content area is titled '[System Time, Date Setting]'. It contains two tables. The first table, 'NTP Setting', has columns 'Attribute' and 'Value'. It includes fields for 'Network Time/Date' (set to 'DISABLE'), 'NTP Primary Server Address', 'NTP Secondary Server Address', and 'Standard Time Zone' (set to 'System Time'). There is a 'Save' button below this table. The second table, '[Time & Date] [Daylight Saving Time]', has columns 'Attribute', 'Value', and 'Range'. It includes fields for 'System Time' (Hour: 17, Minute: 55) and 'System Date' (Month: 07, Day: 29, Year: 10). There is a 'Save' button below this table.

Figure 1.5.7.11-1 System Date, Time

The System Date, Time and NTP Attribute are established by this entry. The date and time are employed for several features and functions: LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc. Network Time Protocol (NTP) can be employed to synchronize the system time with an NTP time server. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds, off the NTP time, the system time is adjusted to synchronize with the NTP server time.

Table 1.5.7.11-1 System Date, Time Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|---|------------------------------|----------------------------------|
| Network Time/Date | The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use DISABLE. | Disable ISDN Clock NTP | Disable |
| NTP Primary Server Address | When the system time synchronizes with NTP server, this address is used for NTP server firstly. | | |
| NTP Secondary Server Address | When the System time synchronize with NTP server and primary NTP server is not available, this address is used for NTP server secondly. | | |
| Standard Time Zone | | | |
| System Time | Sets the system time. | HH: MM | |
| System Date | Sets the system date. | MMDDYY | |
| DST (Daylight Savings Time) Mode | Enables DST feature for System Time. | 0: OFF 1: ON | OFF |
| DST Start Time | Set daylight saving start time. | Refer to DST Table | 2nd Sunday of March at 2: 00 AM |
| DST End Time | Set daylight saving end time. | Refer to DST Table | 1st Sunday in Nov. , at 2: 00 AM |
| System Date | Sets the system date. | MMDDYY | |

1.5.7.12 Button LED Flash Rate – PGM Code 234

Selecting the Button LED Flash Rate will display the page shown, Figure 1.5.7.12-1.

| Order | Attribute | Color | Value |
|-------|---------------------|-------|---------------|
| 1 | [CALLBK] INTERCOM | RED | Flash 30 IPM |
| 2 | [CALLBK] CO LINE | RED | Flash 120 IPM |
| 3 | [CALLBK] MSG WAIT | RED | Flash 120 IPM |
| 4 | [MUTE] TRANSMISSION | RED | Flash Steady |
| 5 | [MUTE] COS CHANGE | RED | Flash 120 IPM |
| 6 | [DND] DND | RED | Flash Steady |
| 7 | [DND] ONE-TIME | RED | Flash 60 IPM |
| 8 | [DND]PRESELECT MSG | RED | Flash 15 IPM |
| 9 | [CALLBK] ACNR | RED | Flash 480 IPM |
| 10 | [SPK] SPEAKER | RED | Flash Steady |
| 11 | [SPK] HEADSET | RED | Flash Steady |
| 12 | [SPK]INCOMING CALL | RED | Flash 60 IPM |
| 13 | [HOLD] PAGING | RED | Flash 60 IPM |
| 14 | [HOLD] VOICE OVER | AMBER | Flash 60 IPM |
| 15 | [HOLD] RESERVED | AMBER | Flash 60 IPM |
| 16 | [RING] ICM RING | RED | Flash 60 IPM |
| 17 | [RING] CO RING | RED | Flash 60 IPM |
| 18 | [RING] MSG WAIT | RED | Flash 60 IPM |
| 19 | [HEADSET] HEADSET | RED | Flash Steady |

Figure 1.5.7.12-1 Button LED Flash Rate

The LED Color and Flash Rate for various functions and states can be assigned. The various functions and states are shown in the following Table. The 3 colors available in the system are shown in the **[COLOR]** table and the 15 flash signals available in the system are shown in the **[FLASH RATE]** table.

Table 1.5.7.12-1 Button LED Flash Rate / Color Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | DEFAULT (COLOR) | DEFAULT (FLASH RATE) |
|---------------------|---|-----------------|----------------------|
| [CALLBK] INTERCOM | [CALL BK] button LED status on intercom call back. | RED | Flash 30 IPM |
| [CALL BK] CO LINE | [CALL BK] button LED status on CO queuing. | RED | Flash 120 IPM |
| [CALL BK] MSG WAIT | [CALL BK] button LED status when message is left. | RED | Flash 120 IPM |
| [MUTE] MUTE | [MUTE] button LED status when voice is muted. | RED | Flash Steady |
| [MUTE] COS CHANGE | [MUTE] button LED status when COS is downed. | RED | Flash 120 IPM |
| [DND] DND | [DND] button LED status in DND. | RED | Flash Steady |
| [DND] ONE-TIME | [DND] button LED status in one time DND. | RED | Flash 60 IPM |
| [DND] PRESELECT MSG | [DND] button LED status when station assigns preselected message. | RED | Flash 15 IPM |
| [CALL BK] ACNR | [CALL BK] button LED status when makes ACNR. | RED | Flash 480 IPM |
| [SPK] SPEAKER | [SPEAKER] button LED status in conversation through speaker. | RED | Flash Steady |
| [SPK] HEADSET | [SPEAKER] button LED status in conversation through headset. | RED | Flash Steady |
| [SPK] INCOMING CALL | [SPEAKER] button LED status when receiving intercom call. | RED | Flash 60 IPM |
| [HOLD] PAGED | [HOLD] button LED status in paging. | RED | Flash 60 IPM |
| [HOLD] VOICE OVER | [HOLD] button LED status in voice-over mode. | AMBER | Flash 60 IPM |
| [HOLD] ICM HOLD | [HOLD] button LED status when call is in intercom held state. | AMBER | Flash 60 IPM |
| [RING] ICM RING | [RING] LED status when receiving intercom call. | RED | Flash 60 IPM |
| [RING] CO RING | [RING] LED status when receiving CO incoming call. | RED | Flash 60 IPM |
| [RING] MSW WAIT | [RING] LED status when message is left | RED | Flash 60 IPM |
| [HEADSET] HEADSET | [HEADSET] LED status when headset is used (LIP-8000 Phone). | RED | Flash Steady |
| [HEADSET] BLUETOOTH | [HEADSET] LED status when Bluetooth is used (LIP-8000 Phone). | RED | Flash 60 IPM |
| [DN] I USE | [DN] button LED status when I use. | GREEN | Flash Steady |
| [DN] OTHER USE | [DN] button LED status when other station use. | RED | Flash Steady |
| [DN] DND | [DN] button LED status in DND. | RED | Flash Off |
| [DN] INCOMING CALL | [DN] button LED status when receiving intercom call. | GREEN | Flash 60 IPM |
| [DN] HOLD | [DN] button LED status in held. | AMBER | Flash 60 IPM |

| ATTRIBUTE/DISPLAY | DESCRIPTION | DEFAULT (COLOR) | DEFAULT (FLASH RATE) |
|--------------------------------|--|-----------------|-----------------------|
| [DN] CALL FORWARD | [DN] button LED status when Call forward is set. | RED | Flash Off |
| [DN] I CONFERENCE | [DN] button LED status when I in conference. | GREEN | Flash Steady |
| [DN] OTHER CONFERENCE | [DN] button LED status when another station is in conference. | RED | Flash Steady |
| [DN] CONF SUPERVISOR | [DN] button LED status in conference supervisor. | AMBER | Flash 60 IPM |
| [DSS] INCOMING CALL | [DSS] button LED status when receiving incoming call. | RED | Flash 60 IPM |
| [DSS] BUSY | [DSS] button LED status during conversation. | RED | Flash Steady |
| [DSS] DND | [DSS] button LED status in DND. | RED | Flash Off |
| [DSS] CALL FORWARD | [DSS] button LED status when call forward is set. | RED | Flash Off |
| [DSS] HANDSET-LIFT | [DSS] button LED status when handset is lifted. | RED | Flash Off |
| [DSS] PRESELECTED MSG | [DSS] button LED status when preselected message is assigned. | RED | Flash Off |
| [DSS] HOLD | [DSS] button LED status on Hold. | RED | Flash Steady |
| [CO] Busy | [CO] button LED status when receiving an external call. | RED | Flash 60 IPM |
| [CO] Other Talk | [CO] button LED status during others' talk state. | RED | Flash Steady |
| [DN] VM Message Wait | [DN] button LED status when VM Message Wait is left. | AMBER | Flash 120 IPM |
| [DSS] VM Message Wait | [DSS] button LED status when VM Message Wait is left. | RED | Flash 120 IPM |
| [CO] Command Group Ring | [CO] button LED status during Command Group Ring. | RED | Flash 60 IPM |
| [CO] Command Group Talk | [CO] button LED status during Command Group Talk. | RED | Flash Steady |
| [CO] I Talk | [CO] button LED status during I Talk. | GREEN | Flash Steady |
| [CO] Hold | [CO] button LED status during Hold. | RED | Flash 60 IPM Wink |
| [CO] I HOLD | [CO] button LED status during I HOLD. | GREEN | Flash 60 IPM Wink |
| [CO] Recall | [CO] button LED status during Recall. | RED | Flash 480 IPM Flutter |
| [DSS] emergency Alert | [DSS] button LED status when receiving emergency alert. | RED | Flash 480 IPM Flutter |
| [DSS] Hotel VIP Wake Up | [DSS] button LED status when hotel VIP has wake-up alarm. | RED | Flash 240 IPM Flutter |

| ATTRIBUTE/DISPLAY | DESCRIPTION | DEFAULT (COLOR) | DEFAULT (FLASH RATE) |
|----------------------|--|-----------------|----------------------------------|
| [CLI] CLI (Incoming) | [CLI] button LED status for CLI incoming call | | Flash: Steady Color: RED |
| [CLI] CLI (Outgoing) | [CLI] button LED status for CLI outgoing call | | Flash: 60 IPM WINK Color: RED |
| [CLI] CLI (Talk) | [CLI] button LED status for CLI in talk status | | Flash: Steady Color: RED |

Table 1.5.7.12-2 Color Description

| COLOR | DESCRIPTION |
|-------|-------------|
| 1 | RED |
| 2 | GREEN |
| 3 | AMBER |

NOTE

If Green/Amber color is not supported by digital phone, Red Color is applied.

Table 1.5.7.12-3 Flash Rate Description

| FLASH RATE | DESCRIPTION |
|------------|-----------------------|
| 00 | Flash OFF |
| 01 | Flash Steady |
| 02 | Flash 30 IPM |
| 03 | Flash 60 IPM |
| 04 | Flash 60 IPM Wink |
| 05 | Flash 240 IPM |
| 06 | Flash 240 IPM Flutter |
| 07 | Flash 480 IPM |
| 08 | Flash 480 IPM Flutter |
| 09 | Flash 15 IPM |
| 10 | Flash 120 IPM |
| 11 | Flash 120 IPM Flutter |
| 12 | Flash 30 IPM Wink |
| 13 | Flash 480 IPM Wink |
| 14 | Flash 480 IPM Double |

1.5.7.13 PPP Attributes – PGM Code 235

Selecting PPP Attributes will display the page shown, Figure 1.5.7.13-1.

The screenshot shows the iPECS Web Administration interface. The left sidebar contains a tree view with categories: Station Group Data, System Data, Table Data, Tenant Data, Board Data, and Voice Network. Under System Data, 'PPP Attribute(235)[N]' is selected. The main content area is titled '[PPP Attributes]' and contains a table with columns: Attribute, Value, and Range. The table lists several attributes with checkboxes in the first column. The 'Value' column contains input fields or dropdowns, and the 'Range' column contains constraints. At the bottom of the table are 'Save' and 'Reset System' buttons.

| Attribute | Value | Range |
|-----------------------|----------|----------------|
| PPP Usage | OFF | |
| PPP Destination | | Station Number |
| User ID 1 | | MAX 12 Chars |
| User Password 1 | | MAX 12 Chars |
| User ID 2 | | MAX 12 Chars |
| User Password 2 | | MAX 12 Chars |
| PPP SERVER IP Address | 10.0.0.3 | |
| PPP CLIENT IP Address | 10.0.0.2 | |

Figure 1.5.7.13-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely using an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After the matching id and password are entered, the iPECS-MG Home page is provided and Web Admin is accessed. If User ID or password does not match information contained in the system, an error will be returned.

Table 1.5.7.13-1 PPP Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---|-----------------------|----------|
| PPP Usage | Determines if PPP is enabled or disabled. | 0: OFF 1: ON | OFF |
| PPP Destination | If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination number, the system will automatically answer the call and request PPP ID and password. | Station number | None |
| User ID 1 | System accepts PPP ID 1. | Max. 12. Character | None |
| User Password 1 | The password entered is used to authorize PPP ID 1. | Max. 12. Character | None |
| User ID 2 | System accepts this PPP ID 2. | Max. 12. Character | None |
| User Password 2 | The password entered is used to authorize PPP ID 2. | Max. 12. Character | None |
| PPP SERVER IP Address | This IP Address is used for a system as a PPP server. | IP Address | 10.0.0.3 |
| PPP CLIENT IP Address | This IP Address is used for a system as a PPP client. | IP Address | 10.0.0.2 |

1.5.7.14 Mobile Attributes – PGM Code 236

Selecting Mobile Attributes will display the page shown, Figure 1.5.7.14-1.

| Attribute | Value | Range |
|--------------------|-------|--------------|
| Mobile Flash Digit | * | Max 2 Digits |
| Mobile Input Time | 5 | 01-20 |

Figure 1.5.7.14-1 Mobile Attributes

The flash digit and input timer for call transferring from a mobile extension can be assigned according to the following Table.

Table 1.5.7.14-1 Mobile Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|-----------------|---------|
| Mobile Flash Digit | Flash digits for accessing from a mobile extension. | Max. 2 digits | * |
| Mobile Input Time | Inter-digit timer for entering mobile flash digits. | 01-20 (seconds) | 05 |

1.5.7.15 Intercom Busy One-Digit Attributes – PGM Code 237

Selecting Intercom Busy One-Digit Attributes will display the page shown, Figure 1.5.7.15-1.

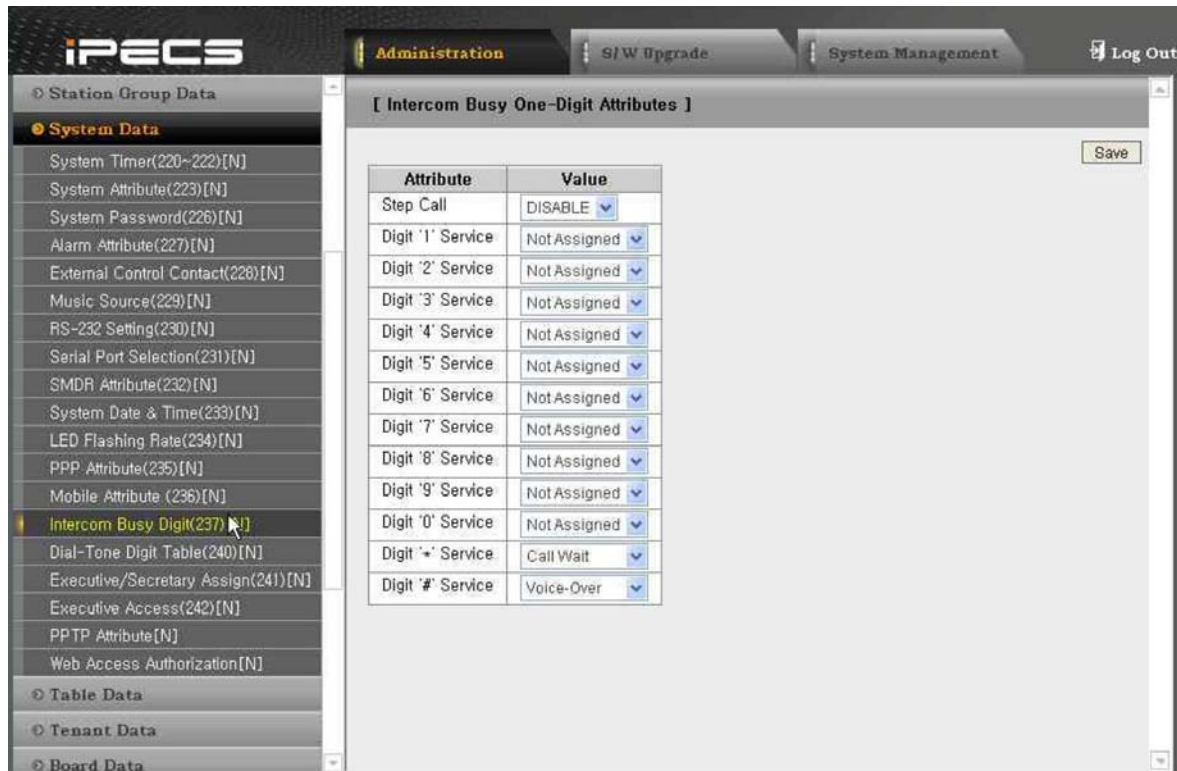


Figure 1.5.7.15-1 Intercom Busy One-Digit Attributes

When a user calls a busy station and receives a busy tone, the user can dial just one digit and the programmed feature is performed.

Table 1.5.7.15-1 Intercom Busy One-Digit Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|--|--------------|
| Step Call | Determines if step call is enabled or disabled. | 0: Disable 1: Enable | Disable |
| Digit '1' Service | When accessing a busy tone, User may dial for one of the one-touch services | 0: N/A 1: Call-Back 2: Camp On 3: Call Wait 4: Voice Over 5: Intrusion 6: Hunt 7: Override-Hold 8:Override -Disconnect | Not Assigned |
| Digit '2' Service | | | Not Assigned |
| Digit '3' Service | | | Not Assigned |
| Digit '4' Service | | | Not Assigned |
| Digit '5' Service | | | Not Assigned |
| Digit '6' Service | | | Not Assigned |
| Digit '7' Service | | | Not Assigned |
| Digit '8' Service | | | Not Assigned |
| Digit '9' Service | | | Not Assigned |
| Digit '0' Service | | | Not Assigned |
| Digit '*' Service | | | Call Wait |
| Digit '#' Service | | | Voice-Over |

1.5.7.16 Dummy Dial-Tone Table – PGM Code 240

Selecting Dummy Dial-Tone Table Attributes will display the page, Figure 1.5.7.16-1.

| Index | Value | Range |
|-------|-------|--------------|
| 1 | 9 | MAX 6 Digits |
| 2 | | MAX 6 Digits |
| 3 | | MAX 6 Digits |
| 4 | | MAX 6 Digits |
| 5 | | MAX 6 Digits |
| 6 | | MAX 6 Digits |
| 7 | | MAX 6 Digits |
| 8 | | MAX 6 Digits |
| 9 | | MAX 6 Digits |
| 10 | | MAX 6 Digits |
| 11 | | MAX 6 Digits |
| 12 | | MAX 6 Digits |
| 13 | | MAX 6 Digits |
| 14 | | MAX 6 Digits |
| 15 | | MAX 6 Digits |
| 16 | | MAX 6 Digits |
| 17 | | MAX 6 Digits |
| 18 | | MAX 6 Digits |
| 19 | | MAX 6 Digits |
| 20 | | MAX 6 Digits |

Figure 1.5.7.16-1 Dummy Dial-Tone Table

When digit conversion is programmed, the CO line is seized after digit conversion is completed and therefore user cannot hear the CO dial tone from PX until completing digit conversion. For this case, a dummy dial tone can be programmed. Pressing one of pre-programmed digit (0-9, *, #, X) will provide CO dial tone to the user regardless of CO line seizure.

1.5.7.17 Executive/Secretary Assign – PGM Code 241

Selecting Executive/Secretary Attributes will display the page shown, Figure 1.5.7.17-1.

The screenshot shows the iPECS web administration interface. On the left is a sidebar menu with categories: Station Group Data, System Data (expanded), Table Data, Tenant Data, and Board Data. Under System Data, 'Executive/Secretary Assign(241)[N]' is highlighted. The main content area is titled '[Executive / Secretary Table]' and contains a table with 7 columns: Index, Executive, Secretary 1, Secretary 2, Secretary 3, Icm Call To Exec., and CO Call T. The table has 17 rows, each with a numeric index from 1 to 17. Each row contains empty text boxes for the Executive, Secretary 1, Secretary 2, and Secretary 3 columns, and dropdown menus for the Icm Call To Exec. and CO Call T columns. A 'Save' button is located at the top right of the table area.

Figure 1.5.7.17-1 Executive/Secretary Assign

Stations can be grouped as Executive/Secretary so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have up to 3 Secretaries. A Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another, however, assignments that form a loop-back are not allowed.

Table 1.5.7.17-1 Executive/Secretary Assign

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--|---|---|--------------|
| Executive | Assigns Executive station. | | |
| Secretary 1-3 | Assigns Secretary stations. 3 secretary station numbers is available. | 1-3 | Not Assigned |
| Executive ICM Call Route (ICM Call to Exec.) | If this option is 'SECRETARY', all internal calls to the Exec. Station (except for calls from executive having executive access privilege) is routed to the Secretary's station regardless of the Executive's status. If 'SEC IF EXEC DND', internal calls are routed to secretary when executive is in 'DND'. | 0: Secretary 1: SEC IF EXEC DND | Secretary |
| CO Call To Exec. | If this option is 'SECRETARY', all incoming CO calls to the Exec. Station is routed to the Secretary station regardless of the Executive's status. If 'SEC IF EXEC DND', incoming CO calls are routed to secretary when executive is in 'DND'. | 0: Secretary 1: SEC IF EXEC DND | SECRETARY |
| Call Executive | Directly routes Executive calls. If OFF, the executive call is routed to secretary. If FIRST SEC. DND, the executive gets a call when first secretary is in 'DND'. If ALL SEC. DND, the executive gets a call when all secretaries all in 'DND'. | OFF/ First Secretary. DND/ All Secretaries. DND | OFF |
| Secretary Choice | Determines the method of selecting a secretary station when multiple secretaries are assigned. There are two options. First Idle and Longest Idle. | First Idle/Longest Idle | First |
| Message Wait Station | Determines where message wait notification is left for executive calls. If EXECUTIVE, message is left at Exec. If FIRST SEC, message is left at first secretary. | 0: Executive 1: First Secretary | Executive |

1.5.7.18 Executive-Executive Access – PGM Code 242

Selecting Executive-Executive Access will display the page shown, Figure 1.5.7.18-1.

The screenshot displays the iPECS web administration interface. The left sidebar contains a tree view with categories: Station Group Data, System Data (selected), Table Data, Tenant Data, and Board Data. Under System Data, 'Executive Access(242)[N]' is highlighted. The main content area is titled '[Executive/Executive Access]'. It includes a form for 'Enter Bin Range (1~48):' with a 'Load' button and a 'Save' button. Below this is a table with columns 'Check All', 'Executive', and 'Select All'. The table lists 19 executives, each with a checkbox in the 'Check All' column and a checkbox in the 'Select All' column. The 'Executive' column lists 'Executive 1' through 'Executive 19'. A mouse cursor is visible over 'Executive 6'.

| Check All | Executive | Select All |
|--------------------------|--------------|--------------------------|
| <input type="checkbox"/> | Executive 1 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 2 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 3 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 4 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 5 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 6 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 7 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 8 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 9 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 10 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 11 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 12 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 13 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 14 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 15 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 16 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 17 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 18 | <input type="checkbox"/> |
| <input type="checkbox"/> | Executive 19 | <input type="checkbox"/> |

Figure 1.5.7.18-1 Executive-Executive Access

Each Executive can be allowed or denied access to other Executives. As a default, calls between Executives are disabled.

1.5.7.19 VM COS Attribute – PGM Code 243

Selecting VM COS Attribute will display the page shown, Figure 1.5.7.19-1. Enter a valid VM COS range and click **[Load]** to enter VM COS Attributes data.

| Order | Attribute | Value | Range |
|-------|-------------------------|-------|---------------|
| 1 | Greeting Length | 60 | 0-99 seconds |
| 2 | Message Length | 60 | 1-999 seconds |
| 3 | Number of Messages | 99 | 1-250 |
| 4 | Retention Time | 0 | 0-99 days |
| 5 | E-Mail Notification | ON | |
| 6 | Future Delivery Message | ON | |
| 7 | Confirm Message Receipt | ON | |
| 8 | Private Message Mark | ON | |

Figure 1.5.7.19-1 VM COS Attribute

The voice mailbox attributes for each VM COS (class of service) can be defined here.

Table 1.5.7.19-1 VM COS Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|--|---------------|---------|
| Greeting Length | The maximum length of greeting in second | 00-99 (sec) | 60 |
| Message Length | The maximum length of voice message in second | 001-999 (sec) | 60 |
| Number of Message | The maximum number of voice message of each mailbox | 001-250 | 99 |
| Retention Time | The maximum number of days until the voice message is erased automatically 0: The voice message is not deleted by system automatically. | 0-99 | 0 |
| E-Mail Notification | Determines if the voice message will be notified to the owner through e-mail | ON/OFF | ON |
| Future Delivery Message | The Voice message can be delivered in future instead of instant deliver. (P 2.0) | ON/OFF | OFF |
| Confirm Message Receipt | The receipt of voice message can be notified to the message sender (P 2.0) | ON/OFF | OFF |
| Private Message Mark | The voice message can be marked as private or not. If the voice message is set private, it cannot be forward to other users. (P 2.0) | ON/OFF | OFF |
| Authority for Greeting & Password | Determines a VM user can access to "Greeting and password" menu. | ON/OFF | ON |
| Access to Distribution List | Determines a VM user can access to "Distribution List" menu. | ON/OFF | ON |

1.5.7.20 System Reroute Table – PGM Code 244

Selecting System Reroute Table will display the page shown, Figure 1.5.7.20-1.

1. Enter a valid index or an index range.
2. Click **[Load]** to enter the System Reroute Table data.

The screenshot shows the iPECS web interface. On the left is a sidebar with a list of configuration items. The 'System Reroute Table(244)[N]' is selected. The main content area is titled '[System Reroute Destination]'. It includes a text input for 'Enter Reroute Table Index Range (1~100):' with 'Load' and 'Overview' buttons. Below this is a table with the following structure:

| Mode | Check All | Attribute | Prompt | Value | Prompt No (PGM 290) |
|-------|--------------------------|--------------------|--------|------------------|------------------------|
| Day | <input type="checkbox"/> | Busy | OFF | Disconnect | Index 9 |
| | <input type="checkbox"/> | No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | Vacant Number | OFF | Disconnect | Index 16 |
| | <input type="checkbox"/> | Transfer No-Answer | OFF | Transfer Station | Index 14 |
| | <input type="checkbox"/> | Recall No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | DND | OFF | Disconnect | Index 22 |
| | <input type="checkbox"/> | Out Of Service | OFF | Disconnect | Index 24 |
| | <input type="checkbox"/> | Error | OFF | CO Ring Assign | Index 19 |
| Night | <input type="checkbox"/> | Busy | OFF | Disconnect | Index 9 |
| | <input type="checkbox"/> | No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | Vacant Number | OFF | Disconnect | Index 16 |
| | <input type="checkbox"/> | Transfer No-Answer | OFF | Transfer Station | Index 14 |
| | <input type="checkbox"/> | Recall No-Answer | OFF | Disconnect | Index 14 |
| | <input type="checkbox"/> | DND | OFF | Disconnect | Index 22 |
| | <input type="checkbox"/> | Out Of Service | OFF | Disconnect | Index 24 |
| | <input type="checkbox"/> | Error | OFF | CO Ring Assign | Index 19 |

Figure 1.5.7.20-1 System Reroute Table

A call reaches a destination after CCR announcement is played. If the destination is not valid or is wrong number or does not answer due to some reasons, the call can be routed to an alternative destination programmed in this table.

According to Call-State (Busy/No-Answer/Vacant/Transfer No-Answer/Recall No-Answer /DND/Out-of-rvice/Error), alternative destination can be assigned.

Call Release, Attendant, Ring-Assignment, Alt-Ring Table and Pilot Hunt Group can be alternative destination.

Table 1.5.7.20-1 System Reroute Table

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|--|---|---------|
| Busy | User unavailable busy or channel busy (ex., VMIB). | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| No-Answer | No response from User Station or CO line. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, | |

Table 1.5.7.20-1 System Reroute Table

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|--|--|---------|
| Vacant Number | Intended called party is invalid format or unallocated number. | Disconnect, Attendant, CO Ring Assign, ALT ring Table, Tone | |
| Transfer No-Answer | Call is transferred when receiving no response from User Station or CO line. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring, Transfer Station | |
| Recall No-Answer | A held call will recall in the event it is not picked up. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group, Ring | |
| DND | Call is rejected at the Station | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| Out of Service | Station is out of service | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |
| Error | Station is in error state. | Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot Hunt Group | |

Table 1.5.7.20-2 Prompt

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|---|--------|---------|
| Prompt | If set ON, the tone is heard first before being routed to alternate destination. | OFF/ON | OFF |
| Prompt No (PGM Code 290) | The relevant tone index in tone table (PGM 290) that is played when Prompt is set ON. | | |

1.5.7.21 PPTP Attribute

Selecting PPTP Attribute will display the page shown, Figure 1.5.7.21-1.

| Attribute | Value | Range |
|---------------------|----------------------|---------------|
| Server 1 | | |
| PPTP Server Address | <input type="text"/> | Max 32 Chars |
| PPTP ID | <input type="text"/> | Max 24 Chars |
| PPTP Password | <input type="text"/> | Max 24 Chars |
| PPTP Service CLI | <input type="text"/> | Max 23 Digits |
| Server 2 | | |
| PPTP Server Address | <input type="text"/> | Max 32 Chars |
| PPTP ID | <input type="text"/> | Max 24 Chars |
| PPTP Password | <input type="text"/> | Max 24 Chars |
| PPTP Service CLI | <input type="text"/> | Max 23 Digits |
| Server 3 | | |
| PPTP Server Address | <input type="text"/> | Max 32 Chars |
| PPTP ID | <input type="text"/> | Max 24 Chars |
| PPTP Password | <input type="text"/> | Max 24 Chars |
| PPTP Service CLI | <input type="text"/> | Max 23 Digits |
| Server 4 | | |
| PPTP Server Address | <input type="text"/> | Max 32 Chars |
| PPTP ID | <input type="text"/> | Max 24 Chars |
| PPTP Password | <input type="text"/> | Max 24 Chars |
| PPTP Service CLI | <input type="text"/> | Max 23 Digits |

Save

Figure 1.5.7.21-1 PPTP Attribute

If iPECS-MG system is in private network and PPTP function is set, iPECS-MG system can try to make PPTP connection to outside PC(PPTP Server). And then tunneling connection will be established between PC and iPECS-MG system.

After connecting outside PC, a user is able to access iPECS-MG system even though iPECS-MG system is in private network with private IP address.

1.5.7.21-1 PPTP Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|------------------------|---|--------------------|--------------|
| Server 1 | | | |
| PPTP Server IP Address | System accepts IP address of user's PC as PPTP Server IP Address 1. | IP address | Not Assigned |
| PPTP ID | System accepts PPTP ID for Server 1. | Max. 24 Characters | Not Assigned |
| PPTP Password | The password entered is used to authorize PPTP ID 1. | Max. 24 Characters | Not Assigned |
| PPTP Service CLI | When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically. | Max. 23 Digits | Not Assigned |
| Server 2 | | | |
| PPTP Server IP Address | System accepts IP address of user's PC as PPTP Server IP Address 2. | IP address | Not Assigned |
| PPTP ID | System accepts PPTP ID for Server 2. | Max. 24 Characters | Not Assigned |
| PPTP Password | The password entered is used to authorize PPTP ID 2. | Max. 24 Characters | Not Assigned |
| PPTP Service CLI | When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically. | Max. 23 Digits | Not Assigned |
| Server 3 | | | |
| PPTP Server IP Address | System accepts IP address of user's PC as PPTP Server IP Address 3. | IP address | Not Assigned |
| PPTP ID | System accepts PPTP ID for Server 3. | Max. 24 Characters | Not Assigned |
| PPTP Password | The password entered is used to authorize PPTP ID 3. | Max. 24 Characters | Not Assigned |
| PPTP Service CLI | When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically. | Max. 23 Digits | Not Assigned |
| Server 4 | | | |
| PPTP Server IP Address | System accepts IP address of user's PC as PPTP Server IP Address 4. | IP address | Not Assigned |
| PPTP ID | System accepts PPTP ID for Server 4. | Max. 24 Characters | Not Assigned |
| PPTP Password | The password entered is used to authorize PPTP ID 4. | Max. 24 Characters | Not Assigned |
| PPTP Service CLI | When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically. | Max. 23 Digits | Not Assigned |

1.5.7.22 Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page, Figure 1.5.7.22-1. This page is only displayed when a password is defined.

| PGM | User Level | | | | | |
|----------------------------------|---|---|---|---|---|---|
| | User | Admin | User 2 | User 3 | Admin 2 | Admin 3 |
| Pre-Programmed Data | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> |
| Location Program(100) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Slot Assignment(101) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Logical Slot Assignment (103) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| DECT/IP/SIP Max Port (104) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| IP-Phone Registration (106) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| DTIM/SLTM Registration (107) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| IP Address Plan(108~109) | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Numbering Plan | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> |
| Numbering Plan Type (110) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| System Numbering Plan (111) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Flexible Station Number (112) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Feature Numbering Plan (113~115) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Station Port Data | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> |
| Station Type(120) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Station Port Attribute (121~124) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Flexible Button Assignment(126) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| CTI IP Address | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Station Number Data | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> | <input type="button" value="Uncheck All"/> |
| Station DN Assignment (130) | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |
| Station DN Attribute | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible | <input checked="" type="checkbox"/> Visible |

Figure 1.5.7.22-1 Web Access Authorization

Seven different accounts (ID & password) can be assigned for the access to the iPECS-MG Web administration so that the different levels of access to the program fields can be allowed.

The User/User2/User3 level has access to assigned programming fields and File Upload & remote Upgrade page, which are mainly related to the system installation. The Admin/Admin2/Admin3 level has access to assigned programming fields.

The Maintenance account (ID & password) password has access all the programming fields and the maintenance fields including trace settings, gateway log view, gain & cadence control, lock key install and device delete feature. In addition, the Maintenance level user can assign the authorities of the other user levels.

1.5.8 Table Data

Selecting the Table Data program group returns the sub-menu displayed in Figure 1.5.8-1.



Figure 1.5.8-1 Table Data Main Page

1.5.8.1 Toll Exception Tables – PGM Code 250

Selecting Toll Table will display the Toll Table data entry page, Figure 1.5.8.1-1. Select the desired Allow or Deny Table.

iPECS
LG-Ericsson R&D Lab
iPECS-MG/ITEM-B.0Ad OCT/11
Boot Version-1.1Ab AUG/11
OS Version-1.1Ab AUG/11

Administration S/W Upgrade System Management Log Out

[Toll Exception Table]

Enter COS No (2~15): Load Save

COS No : 2

| Index | Allow Digit (Max 16 Dgts) | Tenant | | | | | | | | | |
|-------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | Del | Del | Del | Del | Del | Del | Del | Del | Del | Del |
| 1 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 19 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 20 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 21 | <input type="text"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Figure 1.5.8.1-1 Toll Table

The COS numbers from 2 to 15 have both Allow and Deny values in the Toll Table. For each Table, there can be up to 100 separate Allow and Deny entries (up to 16 digits). Entries in the Tables can be any digit (0-9), "*", "#", "X".

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table and it is not in the Allow Table, the number will be restricted otherwise the number can be dialed without restriction.

Based on Table entries, tenant groups are determined to apply the table entry or not.

1.5.8.2 Digit Conversion Tables – PGM Codes 251–252

Selecting Digit Conversion Table will display the page shown, Figure 1.5.8.2-1.

iPECS
LG-Nortel R&D Lab
iPECS-MG/IT50M-A 54g APR/10
Boot Version-1.04 MAR/10
OS Version-1.04 MAR/10
Find PGM
Hide Menu

Administration | S/W Upgrade | System Management | Log Out

[Digit Conversion Table]

Enter Table No (1-9) : Load

Table No : 1 Save

Display Conv. Digit : ON Print Conv. Digit : OFF

Bin Order : [1-30][31-60][61-90][91-120][121-150][151-180][181-210][211-240][241-270][271-300]

| No. | Apply Time | DNT/CR Time Table Index (1-9, empty-not assign) | Dialed Digit (Max 16 Digits) | Changed Digit (Max 16 Digits) | Name (Max 16 Chars) | Apply Option |
|-----|---------------|---|------------------------------|-------------------------------|---------------------|--------------|
| 1 | Unconditional | | | 80120 | | All |
| 2 | Unconditional | | | | | All |
| 3 | Unconditional | | | | | All |
| 4 | Unconditional | | | | | All |
| 5 | Unconditional | | | | | All |
| 6 | Unconditional | | | | | All |
| 7 | Unconditional | | | | | All |
| 8 | Unconditional | | | | | All |
| 9 | Unconditional | | | | | All |
| 10 | Unconditional | | | | | All |
| 11 | Unconditional | | | | | All |
| 12 | Unconditional | | | | | All |
| 13 | Unconditional | | | | | All |
| 14 | Unconditional | | | | | All |
| 15 | Unconditional | | | | | All |
| 16 | Unconditional | | | | | All |

Table Data
 Toll Exception Table(250)[N]
 Digit Conv Table(251-252)[N]
 System Time Table(253-254)[N]
 LCR Time Table(255)[N]
 Holiday Time Table(256)[N]
 System Speed Dial(257)[N]
 Emergency Code Table(258)[N]
 Announcement Table(259)[N]
 CCR Table(260)[N]
 ICLID Table(262)[N]
 CLI Conversion Table(263)[N]
 Tone Frequency/Cadence(264)[N]

Figure 1.5.8.2-1 Digit Conversion Table

The Digit Conversion Table index is assigned to the Station and CO line. In addition, digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR/Time) as necessary.

Each Table has 300 entries of up to 16 digits. Entries in the Tables can be any digit (0-9), “*”, “#”, “X”(Mask Digit).

Each Index can be applied by Apply Option (All/Station/CO line/Disable). According to Display or Print Conversion Digit admin, user can see converted digit and also converted digit can be printed as SDMR data.

1.5.8.3 System Time Tables – PGM Codes 253–254

Selecting System Time Table will display the page shown, Figure 1.5.8.3-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a menu with categories like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', and 'Board Data'. Under 'Table Data', 'System Time Table(253~254)[N]' is selected. The main content area is titled '[System Time Table]' and includes a 'Find PGM' search bar. Below the title, there's a section for 'Time Table Index 1' with a 'Save' button. The configuration fields are as follows:

| Attribute | Value | Range |
|-------------------------|--|-------------------|
| Time Table Current Mode | Ring Mode[Day] / Auto Mode[Manual] / Holiday Mode[Workday] | |
| Time Zone Comment | <input type="text"/> | Max 32 Characters |
| Time Zone | System Time | |
| Daylight Saving Time | OFF | |
| Ring Mode | DAY | |
| Auto Ring Mode | OFF | |

Below the main configuration is a 'Weekly Time' section with a table for Monday, Tuesday, and Wednesday. Each day has a 'Workday' dropdown and a table of times:

| Day | Mode | Day Start Time | Night Start Time | Timed Ring Start Time | Timed Ring End Time | Range |
|-----------|---------|----------------|------------------|-----------------------|---------------------|----------------------|
| Monday | Workday | 09 : 00 | 18 : 00 | | | (HH:MM) 00-23, 00-59 |
| Tuesday | Workday | 09 : 00 | 18 : 00 | | | (HH:MM) 00-23, 00-59 |
| Wednesday | Workday | 09 : 00 | 18 : 00 | | | (HH:MM) 00-23, 00-59 |

Figure 1.5.8.3-1 System Time Tables

The system can automatically select Ring and COS Mode based on the System Time table. Day, Night, and Timed modes are supported.

Each Time Table has a ring mode related to the different ring assignments, COS and answering method for the system. The ring mode can be controlled automatically through definitions in the Auto Ring Mode & Weekly timetable based on Time Table. Start times for Day, and Night modes, and start and end times for Timed modes are entered for each day of week. The Attendant may change the system mode selection from Automatic to Manual.

Table 1.5.8.3-1 System Time Table Attributes

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------------|---|--------------|--|
| Time Zone Comment | This entry defines comment of Time table. | 32 Character | None |
| Time Zone | Determines the time zone to be used with the Time table | 0-73 | 0. SYSTEM TIME |
| Daylight Saving Time | Determines Daylight saving time of Time table. | ON/OFF | OFF |
| Ring Mode | This entry defines the ring mode of Time table. 0. Day, 1. Night, 2. Timed | 0-2 | 0 |
| Auto Ring Mode | Designates Auto Ring mode for Time table. | ON/OFF | OFF |
| Weekly Table | Week day DAY/NIGHT/TIMED ring mode start times and TIMED mode end times. Workday/Holiday also can be selected. | 0000-2359 | DAY: 9: 00 NITE: 18: 00 TDS: TDE: |

1.5.8.4 LCR Time Table – PGM Code 255

Selecting LCR Time Table will display the LCR page shown, Figure 1.5.8.4-1.

Figure 1.5.8.4-1 LCR Time Table

The LCR Time Tables provide a mechanism for defining the database with Digit Conversion Table (PGM 251–252), which will route outgoing calls, particularly long distance, using the most cost-effective route. Additionally, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 1.5.8.4-1 provides general descriptive information and input ranges.

Table 1.5.8.4-1 LCR Time Table Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|-------|------------------------------|
| Day Zone | For each day of the week, a Day Zone (1 to 3) is assigned. The active Day Zone is the Zone assigned to the current day of the week. | 1-3 | Zone 1: all days of the week |
| Time Zone1 | Determines the time zone 1 of day zone. | 00-24 | 00-24 |
| Time Zone2 | Determines the time zone 2 of day zone. | 00-24 | |
| Time Zone3 | Determines the time zone 3 of day zone. | 00-24 | |

1.5.8.5 Holiday Time Table – PGM Code 256

Selecting Holiday Time Table will display the page shown, Figure 1.5.8.5-1.

Figure 1.5.8.5-1 Holiday Time Table

Each Time Table has a Holiday time table and ring mode that can be used in place of Night mode when the current date matches with Holiday time table election from automatic to manual.

Table 1.5.8.5-1 Holiday Time Table

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---|---------------------|-----------|
| Calendar Type | Determines the Calendar Type for use with the Holiday time table. | LUNAR /GREGORIAN | GREGORIAN |
| Holiday Date | Designates Holiday Dates for use with the Holiday time table. | MM/DD | None |

1.5.8.6 System Speed Table – PGM Code 257

Selecting System Speed Table will display the System page shown, Figure 1.5.8.6-1.

Figure 1.5.8.6-1 System Speed Table

Table 1.5.8.6-1 System Speed Dial Table Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|------------------------------|---------|
| Dial Digit | System Speed Dial Digits | Max. 32 digits | |
| Name | System Speed Dial Name | Max. 16 characters | |
| Toll Free | Assignment to apply Toll-Free | 0: OFF 1: ON | OFF |
| Tenant Number | Tenant number to assign System Speed Access. If this field be leaved empty then all tenants adapt this entry. | 1-9 (MG-300) 1-5 (MG-100) | 1 |

1.5.8.7 Emergency Code Table – PGM Code 258

Selecting Emergency Code Table will display the page shown, Figure 1.5.8.7-1.

Figure 1.5.8.7-1 Emergency Code Table

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to sixteen (16) digits in length.

Table 1.5.8.7-1 Emergency Code Table Attributes

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|-------------------------------------|---------|
| Dialed Digit | Dialed digits from user | Max. 16 digits | |
| Changed Digit | CO Group Access Code and digits to be sent to PX when user dials the dialed digit. | Max. 16 digits | |
| Tenant Number | Tenant number to be applied when user dials emergency code. If this field be leaved empty, this entry will be adapted to all of tenants. | Empty, 1-9 (MG-300) 1-5 (MG-100) | 1 |

1.5.8.8 VMIB Announcement Table – PGM Code 259

Selecting VMIB Announcement Table will display the page shown, Figure 1.5.8.8-1.

The screenshot shows the iPECS Web Administration interface. The sidebar menu on the left has 'Table Data' selected, which has expanded to show various tables. The 'Announcement Table(259)[N]' is highlighted. The main content area is titled '[VMIB Announcement Table]'. It features a search bar 'Enter Table No (1~100):' with a 'Load' button and a 'Save' button. Below this is a table with columns: Attribute, Uncheck All, Value, and Range. The table contains the following data:

| Attribute | Uncheck All | Value | Range |
|----------------|-------------------------------------|------------------|-------------|
| First | <input checked="" type="checkbox"/> | VMIB Slot No | 0-18 |
| | <input checked="" type="checkbox"/> | Announcement No | 1-70 |
| Second | <input checked="" type="checkbox"/> | VMIB Slot No | 0-18 |
| | <input checked="" type="checkbox"/> | Announcement No | 1-70 |
| Third | <input checked="" type="checkbox"/> | VMIB Slot No | 0-18 |
| | <input checked="" type="checkbox"/> | Announcement No | 1-70 |
| Fourth | <input checked="" type="checkbox"/> | VMIB Slot No | 0-18 |
| | <input checked="" type="checkbox"/> | Announcement No | 1-70 |
| CCR | <input checked="" type="checkbox"/> | CCR Table Index | 1-100 |
| Multi-Language | <input checked="" type="checkbox"/> | ANNC Table Index | 1-100, none |

Figure 1.5.8.8-1 VMIB Announcement Table

The VMIB Announcement Table is used for play the VMIB Announcement.

Table 1.5.8.8-1 EMERGENCY CODE TABLE ATTRIBUTES

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--------------------------------|--|-------------|---------|
| VMIB Slot No & Announcement No | Recorded VM message from VMIB slot and Announcement number will be used. VMIB Slot (00-18) & Annc. Number (01-70) | | |
| CCR | CCR Table index number to perform CCR feature during Announcement playing. | 1-100 | 1 |
| Multi-Language | Multi-language announcement table index used for playing the VMIB Announcement No. | 1-100, None | none |

1.5.8.9 Customer Call Routing Table – PGM Code 260

Selecting CCR Table will display the Customer page shown, Figure 1.5.8.9-1.

Figure 1.5.8.9-1 Customer Call Routing Table

The system incorporates Integrated Voice Response (IVR) capabilities called Customer Call Routing (CCR). After or during a VMIB Announcement, a caller may dial a digit to select a destination or route for the call. The CCR Table defines the destination associated with digits dialed by the caller in response to a VMIB Announcement (001–100). Up to 100 single-level Audio Text menus may be assigned, or multi-level menu structures (maximum 100 levels) can be established using one menu as a destination for the previous level.

Table 1.5.8.9-1 CCR TABLE ATTRIBUTES

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------------|---|---------|---------|
| Value | <p>The destination of CCR.</p> <p>The following is the CCR destination.</p> <ol style="list-style-type: none"> 1) Station Number 2) Station Group 3) ACD Group 4) Announcement Table (1-100) 5) Announcement Table and Drop (1-100), 6) System Speed (2000-2999) 7) Conference Room 8) Attendant Call 9) VMIB Access 10) Networking Number 11) Internal Paging 12) External Paging 13) Internal/External All Paging 14) Company Directory (New Prompt Needed) 15) Record VM Greeting (New Prompt Needed) 16) Digits | | N/A |
| DISA | DISA can be enabled or disabled for each digit input. | ON/OFF | ON |
| System Reroute Table Index | Table index of system alternative reroute destination (PGM 244) can be set for the case the destination does not answer. | 001-100 | - |

1.5.8.10 Authorization Code Table

Selecting Authorization Code Table will display the page shown, Figure 1.5.8.10-1.

| Index | Code (Max 12 Digits) |
|-------|-------------------------|
| 1 | <input type="text"/> |
| 2 | <input type="text"/> |
| 3 | <input type="text"/> |
| 4 | <input type="text"/> |
| 5 | <input type="text"/> |
| 6 | <input type="text"/> |
| 7 | <input type="text"/> |
| 8 | <input type="text"/> |
| 9 | <input type="text"/> |
| 10 | <input type="text"/> |
| 11 | <input type="text"/> |
| 12 | <input type="text"/> |
| 13 | <input type="text"/> |
| 14 | <input type="text"/> |
| 15 | <input type="text"/> |
| 16 | <input type="text"/> |
| 17 | <input type="text"/> |
| 18 | <input type="text"/> |
| 19 | <input type="text"/> |
| 20 | <input type="text"/> |
| 21 | <input type="text"/> |
| 22 | <input type="text"/> |
| 23 | <input type="text"/> |
| 24 | <input type="text"/> |
| 25 | <input type="text"/> |
| 26 | <input type="text"/> |

Figure 1.5.8.10-1 Authorization Code Table

When a system wants to restrict dialing some codes, the codes can be assigned in Authorization Code Table.

The system compares the dialed digits to entries in Authorization Code Table, and if a match is found, the system will request the password to the caller.

Only when the user dials a valid password (an associated station number and the password (PGM 131 Index 4)), the dialed code is served for the caller.

1.5.8.11 ICLID Route Table – PGM Code 262

Selecting ICLID Route Table will display the page shown, Figure 1.5.8.10-1.

Figure 1.5.8.11-1 ICLID Routing Table

The system can employ Incoming Calling Line Id (ICLID) to determine the routing of incoming external calls. Each CO/IP Line may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table, and route the call based on destination indicated by the index (bin) number of PGM 181.

Table 1.5.8.11-1 ICLID Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------|--|----------------------------------|---------|
| ICLID Number | ICLID to match for the index. | 24-digits | None |
| Name | ICLID name that is sent by the system to the destination for the ICLID routed call. | 16 Character | None |
| Inc CO Group Number | The Incoming CO Group Number to apply ICLID routing. If not assigned, ICLID is applied to all CO Groups. | 1 – 72 (MG-300) 1-24 (MB-100) | |
| Day Index | Alternative Ring Index (PGM 181), for Day. | 1 – 80 | |
| Night Index | Alternative Ring Index (PGM 181), for Night. | 1 – 80 | |
| Timed Index | Alternative Ring Index (PGM 181), for Timed. | 1 – 80 | |
| Tenant Number | The tenant number to be applied to ICLID. | 1~9(MG-300) 1-5(MG-100) | 1 |
| Exception Index | The index for the ICLID exception table can be set for the exception cases | 1-5 | |

1.5.8.12 CLI Conversion Table – PGM Code 263

Selecting the CLI Conversion Table will display the page shown, Figure 1.5.8.12-1.

Figure 1.5.8.12-1 CLI Conversion Table

The system will compare a received CLI or calling CLI to the conversion table.

Table 1.5.8.12-1 CLI Conversion Tables

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--------------------------|-----------|---------|
| Original CID | Received / Original CLI. | 24-digits | None |
| Converted CID | Desired to change CLI. | 24 digits | None |

1.5.8.13 Tone Frequency/Cadence Table – PGM Code 264

Selecting Tone Frequency/Cadence will display the page shown, Figure 1.5.8.13-1.

| Tone Port | Frequency(Hz) | | Repeat | 1 | | 2 | | 3 | | 4 | | Time Unit (msec) |
|-----------|---------------|------|--------|-----|-----|----|-----|----|-----|----|-----|------------------|
| | 1 | 2 | | ON | OFF | ON | OFF | ON | OFF | ON | OFF | |
| 1 | 425 | 0 | 255 | 30 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2 | 620 | 0 | 255 | 20 | 20 | 20 | 20 | 20 | 70 | 0 | 0 | 10 |
| 3 | 1000 | 1020 | 3 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 4 | 440 | 0 | 255 | 10 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 5 | 950 | 0 | 255 | 100 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 6 | 950 | 0 | 2 | 40 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7 | 950 | 0 | 3 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8 | 1400 | 0 | 1 | 120 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 9 | 1400 | 0 | 3 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 10 | 350 | 440 | 255 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 11 | 425 | 0 | 255 | 32 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 12 | 620 | 0 | 3 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 13 | 950 | 0 | 2 | 10 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 14 | 425 | 0 | 255 | 2 | 2 | 2 | 34 | 0 | 0 | 0 | 0 | 100 |
| 15 | 620 | 0 | 255 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 16 | 425 | 0 | 255 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 17 | 350 | 440 | 255 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 18 | 425 | 0 | 1 | 20 | 20 | 20 | 140 | 0 | 0 | 0 | 0 | 10 |
| 19 | 1260 | 1633 | 255 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |

Figure 1.5.8.13-1 Tone Frequency/Cadence Table

The system provides 19 different of tone ports. Each tone port may be designated a tone type according to the Tone Table (PGM 290).

Table 1.5.8.13-1 Tone Port Table (Default)

| Index | Frequency | | Cadence | Repeat |
|-------|-----------|--------|--|-------------|
| | FREQ 1 | FREQ 2 | | |
| 01 | 425 Hz | 0 Hz | 300 ms ON / 200 ms OFF | 255 (Cont.) |
| 02 | 620 | 0 | 200 ms ON / 200 ms OFF / 200 ms ON / 200 ms OFF | 255 (Cont.) |
| 03 | 1000 | 1020 | 500 ms ON / 500 ms OFF | 3 |
| 04 | 440 | 0 | 1 sec ON / 4 sec OFF | 255 (Cont.) |
| 05 | 950 | 0 | 1 sec ON / 2 sec OFF | 255 (Cont.) |
| 06 | 950 | 0 | 400 ms ON / 100 ms OFF | 2 |
| 07 | 950 | 0 | 200 ms ON / 200 ms OFF | 3 |
| 08 | 1400 | 0 | 1200 ms ON / 320 ms OFF | 1 |
| 09 | 1400 | 0 | 200 ms ON / 200 ms OFF | 3 |
| 10 | 350 | 440 | 1 sec ON | 255 (Cont.) |
| 11 | 425 | 0 | 320 ms ON / 30 ms OFF | 255 (Cont.) |
| 12 | 620 | 0 | 200 ms ON / 200 ms OFF | 3 |
| 13 | 950 | 0 | 100 ms ON / 200 ms OFF | 2 |
| 14 | 425 | 0 | 200 ms ON / 200 ms OFF / 200 msec ON / 3400 msec OFF | 255 (Cont.) |
| 15 | 620 | 0 | 100 ms ON / 100 ms OFF | 255 (Cont.) |
| 16 | 425 | 620 | 500 ms ON / 500 ms OFF | 255 (Cont.) |
| 17 | 350 | 0 | 1 sec ON | 255 (Cont.) |
| 18 | 425 | 0 | 200 ms ON / 200 ms OFF / 200 ms ON / 1400 ms OFF | 1 |
| 19 | 1260 | 1633 | 500 ms ON / 500 ms OFF | 255 (Cont.) |

1.5.8.14 Ring Table – PGM Code 265

Selecting Ring Table will display the page shown, Figure 1.5.8.14-1.

| Index | Ring Name | Ring Index (1~15) (PGM266) | | | | Ring Time(sec) (1~600) |
|-------|------------------------------|----------------------------|-----|-----|-----|---------------------------|
| | | 1st | 2nd | 3rd | 4th | |
| 1 | Normal Call Ring (Station) | 5 | 6 | 7 | 8 | 30 |
| 2 | Normal Call Ring (CO) | 9 | 10 | 11 | 12 | 30 |
| 3 | Recall Ring (Station) | 5 | 6 | 7 | 8 | 30 |
| 4 | Recall Ring (CO) | 9 | 10 | 11 | 12 | 30 |
| 5 | Forward Call Ring (Station) | 5 | 6 | 7 | 8 | 30 |
| 6 | Forward Call Ring (CO) | 9 | 10 | 11 | 12 | 30 |
| 7 | Transfer Call Ring (Station) | 5 | 6 | 7 | 8 | 30 |
| 8 | Transfer Call Ring (CO) | 9 | 10 | 11 | 12 | 30 |
| 9 | Call Back Indication Ring | 1 | 1 | 1 | 1 | 30 |
| 10 | Wake-Up Indication Ring | 1 | 1 | 1 | 1 | 30 |
| 11 | Revertible Ring | 1 | 1 | 1 | 1 | 30 |
| 12 | Paging Call Ring | 5 | 5 | 5 | 5 | 30 |
| 13 | Handsfree Answer Ring | 5 | 5 | 5 | 5 | 1 |
| 14 | Command Call Ring | 5 | 5 | 5 | 5 | 30 |
| 15 | Msg Alert Ring | 1 | 1 | 1 | 1 | 1 |
| 16 | Make Call Alert Ring | 1 | 1 | 1 | 1 | 1 |
| 17 | Alarm Ring | 13 | 13 | 13 | 13 | 30 |
| 18 | Fault Ring | 14 | 14 | 14 | 14 | 30 |
| 19 | DID Call Ring (CO) | 9 | 10 | 11 | 12 | 30 |

Figure 1.5.8.14-1 Ring Table

Each Ring type can have 4 different ring signals from among 15 available choices. After the 4 different ring indexes are programmed, CO line or Station may select one of the 4 types.

Table 1.5.8.14-1 Ring Table

| INDEX | RING NAME | REMARK |
|-------|------------------------------|---|
| 1 | Normal Call Ring (Station) | For an internal call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller gets error tone or goes to idle. |
| 2 | Normal Call Ring (CO) | For an external DID call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming CO Alternative (PGM 169). |
| 3 | Recall Ring (Station) | For an internal recall, this ring type and ring timer is applied. If the call is not answered within this timer, the caller gets error tone or goes to idle. |
| 4 | Recall Ring (CO) | For an external recall, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming/outgoing CO Alternative (PGM 169/173). |
| 5 | Forward Call Ring (Station) | When a user activates No-Answer Forward, For an internal call, this ring type will ring for station No-Answer Forward timer (PGM 143) before the calls are forward. |
| 6 | Forward Call Ring (CO) | When a user activates No-Answer Forward, For an external call, this ring type will ring for station No-Answer Forward timer (PGM 143) before the calls are forward. |
| 7 | Transfer Call Ring (Station) | Determines the amount of time a transferred internal call will ring at the receiving station before recalling the station that transferred the call. |

| INDEX | RING NAME | REMARK |
|-------|---------------------------|---|
| 8 | Transfer Call Ring (CO) | Determines the amount of time a transferred internal call will ring at the receiving station. If the call is not answered within this timer, the caller is routed to the 'Trans NO-Answer Destination' of incoming/outgoing CO Alternative (PGM 169/173). |
| 9 | Call Back Indication Ring | For callback ring, this ring type and ring timer is applied. |
| 10 | Wakeup Indication Ring | For wakeup ring, this ring type and ring timer is applied. |
| 11 | Revertible Ring | For revertible ring, this ring type and ring timer is applied. |
| 12 | Paging Call Ring | When SLT gets paging call, this ring type and ring timer is applied. If SLT does not answer within time timer, the ring is cancelled. |
| 13 | Handsfree Answer Ring | When station is H-mode, the internal call is connected automatically after this ring time. |
| 14 | Command Call Ring | When station gets command conference call, this ring type and ring timer is applied. If command conference call does not answer within time timer, the ring is cancelled. |
| 15 | Msg Alert Ring | When message wait is left to the station, this ring type and ring timer is applied for message wait reminder. |
| 16 | Make Call Alert Ring | |
| 17 | Alarm Ring | For external alarm ring, this ring type and ring timer is applied. |
| 18 | Fault Ring | For fault ring, this ring type and ring timer is applied. |
| 19 | DID Call Ring(CO) | For an external DID call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming CO Alternative (PGM 169). |
| 20 | Emergency Alert Ring | When Emergency call is activated, Emergency Alert Ring can be defined. |
| 21 | Bath Alarm Ring | For bath alarm ring, this ring type is applied.(ring timer is not implemented) |
| 22 | VIP Wake-Up Ring | For VIP Wake-up ring, this ring type ring timer is applied. |
| 23 | Wake-Up Failure Ring | When a station's wakeup ring fails, alarm ring is provided to the attendant. This ring type ring timer is applied to that alarm ring. |

1.5.8.15 Ring Frequency/Cadence Table – PGM Code 266

Selecting Ring Frequency/Cadence will display the page shown, Figure 1.5.8.14-1.

| Ring Index | Frequency | | Repeat | 1 | | 2 | | 3 | | 4 | | Time Unit (msec) |
|------------|-----------|------|--------|-----|-----|----|-----|----|-----|----|-----|------------------|
| | F1 | F2 | | ON | OFF | ON | OFF | ON | OFF | ON | OFF | |
| 1 | 1000 | 1020 | 255 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2 | 1000 | 1020 | 255 | 40 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 3 | 1000 | 1020 | 255 | 40 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 4 | 1000 | 1020 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5 | 1000 | 1020 | 255 | 80 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 6 | 890 | 910 | 255 | 80 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7 | 1260 | 1280 | 255 | 80 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8 | 800 | 820 | 255 | 80 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 9 | 1000 | 1020 | 255 | 40 | 40 | 40 | 200 | 0 | 0 | 0 | 0 | 10 |
| 10 | 890 | 910 | 255 | 40 | 40 | 40 | 200 | 0 | 0 | 0 | 0 | 10 |
| 11 | 1260 | 1280 | 255 | 40 | 40 | 40 | 200 | 0 | 0 | 0 | 0 | 10 |
| 12 | 800 | 820 | 255 | 40 | 40 | 40 | 200 | 0 | 0 | 0 | 0 | 10 |
| 13 | 1000 | 1020 | 255 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 14 | 1000 | 1020 | 255 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 15 | 1000 | 1260 | 255 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |

Figure 1.5.8.15-1 Ring Frequency/Cadence Table

Table 1.5.8.15-1 Ring Freq/Cadence Table

| RING INDEX | FREQUENCY | | CADENCE | REPEAT |
|------------|------------|------------|--|-------------|
| | FREQ 1(HZ) | FREQ 2(HZ) | | |
| 01 | 1000 | 1020 | 200 ms ON / 200 ms OFF | 255 (Cont.) |
| 02 | 1000 | 1020 | 400 ms ON / 2 sec OFF | 255 (Cont.) |
| 03 | 1000 | 1020 | 400 ms ON / 600 ms OFF | 255 (Cont.) |
| 04 | 1000 | 1020 | 1 sec ON | 1 |
| 05 | 1000 | 1020 | 800 ms ON / 2400 ms OFF | 255 (Cont.) |
| 06 | 890 | 910 | 800 ms ON / 2400 ms OFF | 255 (Cont.) |
| 07 | 1260 | 1280 | 800 ms ON / 2400 ms OFF | 255 (Cont.) |
| 08 | 800 | 820 | 800 ms ON / 2400 ms OFF | 255 (Cont.) |
| 09 | 1000 | 1020 | 400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF | 255 (Cont.) |
| 10 | 890 | 910 | 400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF | 255 (Cont.) |
| 11 | 1260 | 1280 | 400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF | 255 (Cont.) |
| 12 | 800 | 820 | 400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF | 255 (Cont.) |
| 13 | 1000 | 1020 | 200 ms ON / 200 ms OFF | 255 (Cont.) |
| 14 | 1000 | 1020 | 400 ms ON / 400 ms OFF | 255 (Cont.) |
| 15 | 1000 | 1260 | 300 ms ON / 300 ms OFF | 255 (Cont.) |

1.5.8.16 ICLID Exception Table – PGM Code 267

Selecting ICLID Exception Table will display the page shown, Figure 1.5.8.16-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a tree view of data tables, with 'ICLID Exception Table(267)[N]' selected. The main content area is titled '[ICLID Exception Table]'. It includes a form to 'Enter ICLID Exception Table Index (1-5):' with a 'Load' button and a 'Save' button. Below this, it says 'ICLID Exception Range from 1 to 1'. A table with 20 rows is displayed, with columns 'Index' and 'Dialed Digit (Max 16 Digits)'. The table is currently empty.

Figure 1.5.8.16-1 ICLID Exception Table

This table provides a way to handle some exceptional cases for ICLID (Incoming Calling Line ID) routing. If there's an entry matching the called party number, ICLID is not performed. But the called party rings for the call, which is an exception to ICLID routing.

Table 1.5.8.16-1 ICLID Exception Table

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|--|----------|---------|
| Dialed Digit | Dialed digit stream activating ICLID exception | 16-digit | None |

1.5.8.17 R2 Signal Group Table – PGM Code 268

Selecting Voice Mail Dialing Table will display the page shown, Figure 1.5.8.17-1.

Selecting R2 Signal Group Table will display the page shown, Figure 1.5.8.17-1 and Figure 1.5.8.17-2. The Figure 1.5.8.17-1 is for R2 Forward Signaling table and the Figure 1.5.8.17-2 is for R2 Backward Signaling table.

[R2 Signal Group Table]

Enter R2 Signal Group (1~9):

Forward R2 Signal Group No : 1

| Index | Group I | Group I | Group II | Group II |
|-------|--------------------------|---------|---------------------------------------|----------|
| 1 | digit 1 | I-1 | Subscriber without priority | II-1 |
| 2 | digit 2 | I-2 | Subscriber with priority | II-2 |
| 3 | digit 3 | I-3 | Maintenance equipment | II-3 |
| 4 | digit 4 | I-4 | public payphone | II-4 |
| 5 | digit 5 | I-5 | Operator | II-5 |
| 6 | digit 6 | I-6 | Data transmission | II-6 |
| 7 | digit 7 | I-7 | collect call block | II-7 |
| 8 | digit 8 | I-8 | intercity public telephone | II-8 |
| 9 | digit 9 | I-9 | international incoming service | II-9 |
| 10 | digit 0 | I-10 | reserved | II-10 |
| 11 | reserved | I-11 | Non-identified subscriber (no charge) | II-11 |
| 12 | Request not accepted | I-12 | reserved | II-12 |
| 13 | Access to test equipment | I-13 | forward transfer facility | II-13 |
| 14 | reserved | I-14 | reserved | II-14 |
| 15 | End of Identification | I-15 | reserved | II-15 |

Figure 1.5.8.17-1 R2 Signal Group Forward Table

[R2 Signal Group Table]

Enter R2 Signal Group (1~9):

Backward R2 Signal Group No : 1

| Index | Group A | Group A | Group B | Group B |
|-------|--|---------|--|---------|
| 1 | Send next digit (n + 1) | A-1 | Subscriber's line free, last party release | B-1 |
| 2 | Send last but one digit (n - 1) | A-2 | Changed number | B-2 |
| 3 | Address-complete, change to rx Group B | A-3 | Subscriber line busy | B-3 |
| 4 | Congestion in the national network or abnormal time-out or release | A-4 | congestion | B-4 |
| 5 | Send calling party's category | A-5 | Unallocated number | B-5 |
| 6 | Address-complete, charge, set-up speech conditions | A-6 | Subscriber's line free, charge | B-6 |
| 7 | Send last but two digit (n - 2) | A-7 | Subscriber's line free, no charge | B-7 |
| 8 | Send last but three digit (n - 3) | A-8 | Subscriber line out of order | B-8 |
| 9 | Send first digit | A-9 | Malicious call | B-9 |
| 10 | Send last digit (n) | A-10 | Send special information tone | B-10 |
| 11 | reserved | A-11 | reserved | B-11 |
| 12 | reserved | A-12 | reserved | B-12 |
| 13 | reserved | A-13 | reserved | B-13 |
| 14 | reserved | A-14 | reserved | B-14 |
| 15 | reserved | A-15 | reserved | B-15 |

Figure 1.5.8.17-2 R2 Signal Group Backward Table

1.5.8.18 Voice Mail Dialing Table – PGM Code 269

Selecting Voice Mail Dialing Table will display the page shown, Figure 1.5.8.18-1.

| Index | Value | Range |
|---------------------------|----------------------------|--|
| Voice Mail 1 (Put) | Prefix : P# Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 2 (Get) | Prefix : P## Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 3 (Busy) | Prefix : P##3P Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 4 (No-Answer) | Prefix : P##4P Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 5 (Error) | Prefix : P##5P Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 6 (DND) | Prefix : P##6P Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 7 | Prefix : Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 8 | Prefix : Suffix : | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |
| Voice Mail 9 (Disconnect) | ***** Save | Max 12 Digits(Include +, #, P, F). P:Pause, F:Flash |

Figure 1.5.8.18-1 Voice Mail Dialing Table

When an external Voice Mail system is used that employs in-band signaling, a digit sequence must be defined for the system to signal various call characteristics to the Voice Mail system. The voice mail uses the sequences to determine appropriate announcements or further call routing. The Voice Mail Dial Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for call characteristics such as Put Mail, Get Mail, No Answer Call, etc.

Table 1.5.8.18-1 Voice Mail Dial Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------------|--|------------------------|---------|
| Voice Mail 1-Put | Code sent for receiving calls to record a message (Put Mail). | 0: Prefix 1: Suffix | P# |
| Voice Mail 2-Get | Code sent for message playback (Get Mail). | 0: Prefix 1: Suffix | P## |
| Voice Mail 3-Busy | Code sent when voice mail receives a call while the user is busy (Busy Mail). | 0: Prefix 1: Suffix | P##3P |
| Voice Mail 4-No Answer | Code sent when voice mail receives a call while the user does not answer (No Answer Mail). | 0: Prefix 1: Suffix | P##4P |
| Voice Mail 5 – Error | Code sent when voice mail receives a call when dialing error exists (Error Mail). | 0: Prefix 1: Suffix | P##5P |
| Voice Mail 6 – DND | Code sent when voice mail receives a call when user is in DND mode (DND Mail). | 0: Prefix 1: Suffix | P##6P |
| Voice Mail 7 | RESERVED | 0: Prefix 1: Suffix | |
| Voice Mail 8 | RESERVED | 0: Prefix 1: Suffix | |
| Voice Mail 9-Disconnect | Code sent when voice mail receives a disconnected call (Disconnect Mail). | 0: Prefix 1: Suffix | ***** |

1.5.8.19 Virtual CLI Table – PGM Code 750

Selecting Virtual CLI Table will display the page shown, Figure 1.5.8.19-1.

| Index | DIGIT (Max 24 Digits(0~9,*,#,B,E,X)) |
|-------|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |
| 25 | |

Figure 1.5.8.19-1 Virtual CLI Table

This table is used for CLI when a virtual subscriber makes outgoing call at PGM 751 Virtual Subscriber Table. Length of number is 24 digits. This table can be assigned up to 300 for iPECS-MG 300 and 100 for iPECS-MG 100.

NOTE

- B: Begin Copied, E: End Copied, X: any one digit.
- Virtual CLI is assigned up to 24 digits in case of not including 'B' and 'E', 25 digits in case of including 'B' or 'E' and 26 digits in case of including both 'B' and 'E'.
- 'X' should be after the 'B' or 'E'. And, 'B', 'E' and 'X' can't stand alone.

1.5.8.20 Virtual Subscriber Table – PGM Code 751

Selecting Virtual CLI Table will display the page shown, Figure 1.5.8.20-1.

Figure 1.5.8.20-1 Virtual Subscriber Table

The Virtual Subscriber Table contains incoming CLI, called number, incoming CO group, day/night/timed class, tenant, maximum virtual calls, digit conversion table, Virtual CLI table index and destination. The incoming CLI can be assigned up to 24 digits. The table can be assigned up to 300 for iPECS-MG 300 and 100 for iPECS-MG 100 tables.

NOTE

- C: any digits(block), N: No CLI, X: any one digit.
- 'N', 'X' and 'C' can't be used in one CPN type at the same time.
- 'C' can be only the first or last digit
- 'N' can't be programmed with other digits.

Table 1.5.8.20-1 Virtual Subscriber Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------|--|--------------------------------------|---------|
| CLIP Number | CLI used to match the index. | 24–digits | None |
| Called Number | Called Number to match the index. | 32–digits | None |
| CO Incoming Group No | The CO Group Number to apply Virtual Subscriber route; if not assigned, Virtual Subscriber Service is NOT applied. | 1–72 (MG-300) 1–24 (MG-100) | None |

Table 1.5.8.20-1 Virtual Subscriber Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|--|--|---------|
| Day COS | Virtual Subscriber's temporary COS in Day mode. | 00–15 | 00 |
| Night COS | Virtual Subscriber's temporary COS in Night mode. | 00–15 | 00 |
| Timed COS | Virtual Subscriber's temporary COS in Timed mode.. | 00–15 | 00 |
| Tenant No | The tenant number to be applied the Virtual Subscriber. | 1–9 (MG–300) 1–5 (MG–100) | 1 |
| Max Virtual Calls | The maximum virtual subscriber service number with same CLI and Called Number at the same time. | 000-254 | None |
| Digit Conversion Table | Specify Digit Conversion Table for Virtual Subscriber's destination. | 1–9. | 1 |
| Destination | If this destination is assigned, received called number is ignored. | 32–digits | None |
| Virtual CLI Type | Virtual CLI Type when virtual subscriber makes outgoing call. – All : Apply for all outgoing calls – IND: Apply the Virtual CLI differently according to extensions, CO groups(max. 6) and the others. | | ALL |
| Virtual CLI Table Index for Station | When the destination is an extension, this Virtual CLI index is used for display. | 001–300 (MG–300) 001–100 (MG–100) | None |
| Virtual CLI Table Index for All Cases/Other | 1) When Virtual CLI type is ALL 2) When Virtual CLI type is IND and the Virtual CLI index is not specified. | 001–300 (MG–300) 001–100 (MG–100) | None |
| Outgoing CO Group | Assign the outgoing CO groups for using the Virtual CLI individually. | Refer to Table 1.5.8.20-1. | |
| Virtual CLI Table Index for Outgoing CO Group | Assign the Virtual CLI Table index for each CO group in Outgoing CO Group. | Refer to Table 1.5.8.20-1. | |

Table 1.5.8.20-2 Outgoing CO Group/Virtual CLI

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|--|---------|
| Outgoing CO Groups for IND type | The outgoing CO group for using Virtual CLI. | 1–72 (MG-300) 1–24 (MG-100) | |
| Virtual CLI Table Index for outgoing CO groups when IND type is selected. | The Virtual CLI Table index for the outgoing CO groups. | 001–300 (MG–300) 001–100 (MG–100) | |

1.5.9 Tenant Data

Selecting the Tenant Data program group returns the sub-menu displayed in Figure 1.5.9-1.



Figure 1.5.9-1 Tenant Data Main Page

1.5.9.2 Attendant Group Attributes – PGM Codes 271–272

Selecting Attendant Group Attributes will display the page shown, Figure 1.5.9.2-1.

The screenshot displays the 'Attendant Group Attributes' configuration page in the iPECS web interface. The page is titled '[Attendant Group Attributes]' and includes a sidebar with navigation options. The main content area shows a table of attributes for PGM 271 and PGM 272. The table has columns for Order, Attribute, Value, and Range. Attributes include Greeting Tone Type, Greeting Play Timer, Greeting Tone No, Greeting Prompt/Announcement Table No, Greeting Repeat Count, Greeting Repeat Delay Timer, Queuing Tone Type, Queuing Forward/Second Queuing Annc. Timer, Queuing Tone No, Queuing Prompt/Announcement Table No, Queuing Repeat Count, Queuing Repeat Delay Timer, CCR during First Queuing Announcement, CCR during Second Queuing Announcement, and Call in Greeting.

| Order | Attribute | Value | Range |
|------------------------------------|---|--------------|---------------------------|
| PGM 271 | | | |
| Greeting Announcement | | | |
| 1 | Greeting Tone Type | Normal | |
| 2 | Greeting Play Timer | 10 | 0-180 |
| 3 | Greeting Tone No | 4 | 1-19 |
| 4 | Greeting Prompt/Announcement Table No [PGM 259] | | 1-255(prompt)/1-100(ann.) |
| 5 | Greeting Repeat Count | 3 | 0-100 |
| 6 | Greeting Repeat Delay Timer | 0 | 0-100 |
| First Queuing Announcement | | | |
| 7 | Queuing Tone Type | Prompt | |
| 8 | Queuing Forward/Second Queuing Annc. Timer | 30 | 0-300 |
| 9 | Queuing Tone No | | 1-19 |
| 10 | Queuing Prompt/Announcement Table No [PGM 259] | 217 | 1-255(prompt)/1-100(ann.) |
| 11 | Queuing Repeat Count | 3 | 0-100, 0=continuous |
| 12 | Queuing Repeat Delay Timer | 2 | 0-100 |
| 13 | CCR during First Queuing Announcement | OFF | |
| Second Queuing Announcement | | | |
| 14 | Queuing Tone Type | Internal MOH | |
| 15 | Queuing Forward Timer | 30 | 0-300 |
| 16 | Queuing Tone No | | 1-19 |
| 17 | Queuing Prompt/Announcement Table No [PGM 259] | | 1-255(prompt)/1-100(ann.) |
| 18 | Queuing Repeat Count | 3 | 0-100, 0=continuous |
| 19 | Queuing Repeat Delay Timer | 0 | 0-100 |
| 20 | CCR during Second Queuing Announcement | OFF | |
| PGM 272 | | | |
| 1 | Call in Greeting | In Greeting | |

Figure 1.5.9.2-1 Attendant Group Attributes

Each attendant group has available attributes related to greeting and queuing announcements, timers, and also attributes related to announcements, timers, forward, etc. The following Table provides descriptions for the attributes.

Table 1.5.9.2-1 Attendant Group Attributes

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|---------------------------------------|---|---------|
| Greeting Tone Type | Determines the type of greeting tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | Normal |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|---|---------|
| Greeting Play Timer | Determines greeting play time. | 000~180 (sec) | 000 |
| Greeting Tone No | Determines greeting tone number in case greeting type is normal. | 01~19 | NOT ASG |
| Greeting Prompt/ Announcement Table No (PGM 259) | Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC. | 001-255 | NOT ASG |
| Greeting Repeat Count | Determines the number of times the Greeting will repeat, when greeting type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped. | 000-100 | 3 |
| Greeting Repeat Delay Timer | Determines the Pause Timer before greeting is repeated, when greeting type is Prompt or Announcement. | 000-100 (seconds) | 0 |
| Queuing Tone Type | Determines the type of queuing tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | INT MOH |
| Queuing Forward/Second Queuing Annc. Timer | Determines queuing annc timer | 0~300 | 30 |
| Queuing Tone No | Determines tone number in case queuing type is normal. | 01~19 | NOT ASG |
| Queuing Prompt/ Announcement Table No (PGM 259) | Determines queuing prompt / annc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Queuing Repeat Count | Determines the number of times the queuing will repeat, when queuing type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped. | 000-100 0: continuous | 3 |
| Queuing Repeat Delay Timer | Determines the Pause Timer before queuing is repeated, when queuing type is Prompt or Announcement. | 000-100 (seconds) | 0 |
| CCR during First Queuing Announcement | This entry defines CCR option when queuing announcement is provided. | ON/OFF | OFF |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|---|---|-------------|
| Second Queuing Tone Type | Determines the type of queuing tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | INT MOH |
| Queuing Forward/Second Queuing Annc. Timer | Determines queuing annc timer or the timer for forward destination. | 000~300 (seconds) | 30 |
| Second Queuing Tone No | Determines tone number in case queuing type is normal. | 01~19 | NOT ASG |
| Second Queuing Prompt/ Announcement Table No (PGM 259) | Determines queuing prompt / annc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Second Queuing Repeat Count | Determines the number of times the second queuing will repeat, when second queuing type is Prompt or Announcement. After second greeting play time, greeting repeat will be stopped. | 000-100 0: continuous | 3 |
| Second Queuing Repeat Delay Timer | Determines the Pause Timer before second queuing is repeated, when second queuing type is Prompt or Announcement. | 000-100 (seconds) | 0 |
| CCR during Second Queuing Announcement | This entry defines CCR option when queuing announcement is provided. | ON/OFF | OFF |
| Call In Greeting | Determines if a call is routed to attendant while greeting tone is played. | 0. After Greeting 1. In Greeting | 1 |
| Max. Queue Count | Determines queue count. | 00~99 | 05 |
| Forward Type | Determines the forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Timeout: a call is routed to a forward destination when a forward timer expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired. | 0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All | NOT USED |
| Apply Time Type | Determines a time to apply forward type. | 0. ALL 1. DAY 2. NIGHT 3. TIMED | ALL |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|---|--|-------------|
| Forward Destination | Determines a forward destination (trunk access code should be included). | Max. 16 digits | |
| Wrap-Up Timer | Determines the wrap up timer. A member becomes available when this timer expires after a member goes to idle. | 000-600 (100ms) | 5 |
| Member No-Answer Timer | Determines length of the no answer timer. When this timer expires, a call is routed to the next attendant. | 05-60 (seconds) | 15 |
| Attendant Call by Station Number | Determines attendant call by dialing attendant member. OFF: the call for attendant follows normal call. ON: the call for attendant follows attendant group call | ON/OFF | OFF |
| Ring No-Answer Forward Timer | This entry defines ring no answer timer. If this timer is expires, a call is routed to the forward destination according to forward type. | 0-180 (seconds) | 0 |
| Provide Announcement with Answer | 0: Provide Answer signal when attendant answer the call. 1: Provide Answer signal when greeting or queuing tone is served. | 0: with answer 1: w/o answer | with answer |
| Ring Service for member in forward | This entry defines if system provides ring service when a member goes to forward state. | 0: No ring 1: Ring to forwarded station | No ring |

1.5.9.3 Night Attendant Group Assignment – PGM Code 275

Selecting Night ATD Group Assignment will display the page shown, Figure 1.5.9.3-1.

Figure 1.5.9.3-1 Night Attendant Group Assignment

Night Attendant Group covers a call while the Attendant station is in an unavailable mode or system goes to night mode. Stations can be grouped as night attendant group so that calls will search for an idle station in the night attendant group. The system allows assignment of processes, Circular, Terminal, Ring, and Longest Idle.

Table 1.5.9.3-1 Night Attendant Group Assignment

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|--|---------------|
| Group Type | Determines the type of night Attendant group. | 0: Terminal 1: Circular 2: Ring 3: Longest Idle | Terminal |
| Group Name | Determines the name of night attendant group. | Max. 16 | - |
| Member | Assigns stations as members of a night attendant group. | | First Station |

1.5.9.4 Night Attendant Group Attributes – PGM Codes 276–277

Selecting Night ATD Group Attributes will display the page shown, Figure 1.5.9.4-1.

| Order | Attribute | Value | Range |
|------------------------------------|--|--------------|----------------------------|
| PGM 276 | | | |
| Greeting Announcement | | | |
| 1 | Greeting Tone Type | Normal | |
| 2 | Greeting Play Timer | 0 | 0-180 |
| 3 | Greeting Tone No | | 1-19 |
| 4 | Greeting Prompt/Announcement Table No[PGM 259] | | 1-255(prompt)/1-100(annc.) |
| 5 | Greeting Repeat Count | 3 | 0-100 |
| 6 | Greeting Repeat Delay Timer | 0 | 0-100 |
| First Queuing Announcement | | | |
| 7 | Queuing Tone Type | Internal MOH | |
| 8 | Queuing Forward/Second Queuing Annc. Timer | 30 | 0-300 |
| 9 | Queuing Tone No | | 1-19 |
| 10 | Queuing Prompt/Announcement Table No[PGM 259] | | 1-255(prompt)/1-100(annc.) |
| 11 | Queuing Repeat Count | 3 | 0-100, 0=continuous |
| 12 | Queuing Repeat Delay Timer | 0 | 0-100 |
| 13 | CCR during First Queuing Announcement | OFF | |
| Second Queuing Announcement | | | |
| 14 | Queuing Tone Type | Internal MOH | |
| 15 | Queuing Forward Timer | 30 | 0-300 |
| 16 | Queuing Tone No | | 1-19 |
| 17 | Queuing Prompt/Announcement Table No[PGM 259] | | 1-255(prompt)/1-100(annc.) |
| 18 | Queuing Repeat Count | 3 | 0-100, 0=continuous |
| 19 | Queuing Repeat Delay Timer | 0 | 0-100 |
| 20 | CCR during Second Queuing Announcement | OFF | |
| PGM 277 | | | |
| 1 | Call in Greeting | In Greeting | |

Figure 1.5.9.4-1 Night Attendant Group Attributes

Each night attendant group has available attributes related to greeting and queuing announcements, timers and attributes related to announcements, timers, forward, etc.

The following Table provides descriptions for the attributes.

Table 1.5.9.4-1 Night Attendant Group Attributes

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|---|---------|
| Greeting Tone Type | Determines the type of greeting tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | Normal |
| Greeting Play Timer | Determines greeting play time. | 000~180 (sec) | 000 |
| Greeting Tone No | Determines greeting tone number in case greeting type is normal. | 01~19 | NOT ASG |
| Greeting Prompt/ Announcement Table No (PGM 259) | Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC. | 001-255 | NOT ASG |
| Greeting Repeat Count | Determines the number of times the Greeting will repeat, when greeting type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped. | 000-100 | 3 |
| Greeting Repeat Delay Timer | Determines the Pause Timer before greeting is repeated, when greeting type is Prompt or Announcement. | 000-100 (seconds) | 0 |
| Queuing Tone Type | Determines the type of queuing tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | INT MOH |
| Queuing Forward/Second Queuing Annc. Timer | Determines queuing forward/second annc timer | 0~300 (seconds) | 30 |
| Queuing Tone No | Determines tone number in case queuing type is normal. | 01~19 | NOT ASG |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|---|---|-------------|
| Queuing Prompt/ Announcement Table No (PGM 259) | Determines queuing prompt / annnc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Queuing Repeat Count | Determines queuing repeat number | 000-100 0: continuous | 3 |
| Queuing Repeat Delay Timer | Determines the Pause Timer before queuing is repeated, when queuing type is Prompt or Announcement. | 000-100 (seconds) | 0 |
| CCR during First Queuing Announcement | This entry defines CCR option when queuing announcement is provided. | ON/OFF | OFF |
| Second Queuing Tone Type | Determines the type of queuing tone. | Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5 | INT MOH |
| Second Queuing Forward Timer | Determines the timer for forward destination. | 000~300 (seconds) | 30 |
| Second Queuing Tone No | Determines tone number in case queuing type is normal. | 01~19 | NOT ASG |
| Second Queuing Prompt/ Announcement Table No (PGM 259) | Determines queuing prompt / annnc number when queuing type is PROMPT/ANNC. | 001-255 | NOT ASG |
| Second Queuing Repeat Count | Determines queuing repeat number | 000-100 0: continuous | 3 |
| Second Queuing Repeat Delay Timer | Determines the pause timer before queuing repeat. | 000-100 (seconds) | 0 |
| CCR during Second Queuing Announcement | This entry defines CCR option when queuing announcement is provided. | ON/OFF | OFF |
| Second CCR during First Queuing Announcement | This entry defines CCR option during queuing announcement is provided. | 0-1 | 0 |
| Call In Greeting | Determines if a call is routed to attendant while greeting tone is played. | 0. After Greeting 1. In Greeting | In Greeting |
| Max. Queue Count | Determines queue count. | 00~99 | 05 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|---|--|-------------|
| Forward Type | Determines the forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Timeout: a call is routed to a forward destination when a timeout timer expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired. | 0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All | NOT USED |
| Apply Time Type | Determines a time to apply forward type. | 0. ALL 1. DAY 2. NIGHT 3. TIMED | ALL |
| Forward Destination | Determines a forward destination (trunk access code should be included). | Max. 16 digits | |
| Wrap-Up Timer | Determines the wrap up timer. A member becomes available when this timer expires after a member goes to idle. | 000-600 (100ms) | 10 |
| Member No-Answer Timer | Determines length of the no answer timer. When this timer expires, a call is routed to the next attendant. | 05-60 (seconds) | 15 |
| Ring No-Answer Forward Timer | This entry defines ring no answer timer. If this timer is expires, a call is routed to the forward destination according to forward type. | 0-180 (seconds) | 0 |
| Provide Announcement with Answer | This entry defines if system answers the call when a greeting or queuing announcement is provided. | 0: with answer 1: w/o answer | with answer |

1.5.9.5 Tenant Attributes – PGM Code 280–281

Selecting Tenant Attributes will display the page shown, Figure 1.5.9.5-1.

The screenshot shows the iPECS Web Administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar lists various configuration categories, with 'Tenant Data' selected. The main content area is titled '[Tenant Attributes]' and contains a form for configuring tenant attributes. The form includes a 'Tenant Range' selector (set to 1-9) and a 'Load' button. Below this, a table lists attributes for PGM 280 and PGM 281. Each attribute has an 'Order', a 'Check All' checkbox, a description, a 'Value' field, and a 'Range'.

| Order | Check All | Attribute | Value | Range |
|----------------|--------------------------|--|--|------------------------|
| PGM 280 | | | | |
| 1 | <input type="checkbox"/> | Tenant Name | <input type="text"/> | Max 16 Characters |
| 2 | <input type="checkbox"/> | Tenant Name Display | OFF | |
| 3 | <input type="checkbox"/> | Tenant Time Table Index | 1 | 1-9 |
| 4 | <input type="checkbox"/> | ACNR Retry Count | 3 | 0-30 |
| 5 | <input type="checkbox"/> | Wakeup Retry Count | 3 | 0-5 |
| 6 | <input type="checkbox"/> | Wakeup Retry Time | 1 | 00-20 |
| 7 | <input type="checkbox"/> | Authorization Retry Count | 3 | 0-5 |
| 8 | <input type="checkbox"/> | Multi-Call Forward Service Count | 5 | 01-10 |
| 9 | <input type="checkbox"/> | Tenant Tone Table Index | 1 | 1-9 |
| 10 | <input type="checkbox"/> | Station COS down when authorization fail | OFF | |
| 11 | <input type="checkbox"/> | Authorization code fail count for COS down | 3 | 1-9 |
| 12 | <input type="checkbox"/> | Authorization for System Speed | OFF | |
| 13 | <input type="checkbox"/> | Digit Map Option Table Index | | 1-20, empty=not assign |
| PGM 281 | | | | |
| 1 | <input type="checkbox"/> | Conference Member Manual Add | ON | |
| 2 | <input type="checkbox"/> | Redial Method | List Dial | |
| 3 | <input type="checkbox"/> | Dial Digit Process | Type 3 (Convert->CO Seize->Restrict External No) | |
| 4 | <input type="checkbox"/> | Transfer CO call to COS 0 Station | ON | |

Figure 1.5.9.5-1 Tenant Attributes

One system can be divided as if it consists of several systems. Each station and CO line is assigned to a specific tenant group. Each tenant has available attributes related to Tenant Name, ACNR Retry Count, Wakeup, Authorization, etc.

Table 1.5.9.5-1 Tenant Attributes

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|---|---------|---------|
| Tenant Name | Determines the name of Tenant. | Max. 16 | |
| Tenant Name Display | Determines Tenant name display. | ON/OFF | OFF |
| Tenant Time Table Index | Time Table index of tenant group. | 1-9 | 1 |
| ACNR Retry Count | Determines ACNR retry count. | 0-30 | 3 |
| Wake Up Retry Count | Determines Wakeup retry count. | 0-5 | 3 |
| Wake Up Retry Time | Determines Wakeup retry time. (min) | 00-20 | 01 |
| Auth Retry Count | Determines Auth. retry count. | 0-5 | 3 |
| Multi-Call Forward Service Count | Determines Multi Call forward count. | 01-10 | 05 |
| Tone Table Index | Determines Tone Table index for a tenant. | 1-9 | 1 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|---|-----------|
| COS down when authorization fail | Determines the COS down when a authorization is failed. | ON/OFF | OFF |
| Authorization code fail count for COS down | Determines the Authorization cod fail count for COS down. Station COS can be changed to 0 after this count. | 1-9 | 3 |
| Authorization for System Speed | Determines authorization when a user uses system speed dial. | ON/OFF | OFF |
| Digit Map Option Table Index | Determines Digit Map Option Table number. | 1-20 | |
| Conference Member Manual Add | Determines conf-member manual add. ON- CONF member will be added with CONF button. OFF- CONF member will be added automatically. | ON/OFF | ON |
| Redial Method | Determines the redial method when user presses [REDIAL] button. 0. ONE TOUCHES CALL: When [REDIAL] button is pressed, redialing is made. 1. ONE TOUCH LOG PHONE: When [REDIAL] button is pressed by phone with 3-soft buttons, redialing is made. If phone does not have 3-soft buttons, redial list is displayed. 2. LIST DIAL: When [REDIAL] button is pressed, redial list is displayed. User selects for redialing. | 0: ONE TOUCHES CALL 1: ONE TOUCH LOG PHONE 2: LIST DIAL | LIST DIAL |
| Dial Digit Process | Determines the dial digit processing method. 0: TYPE 1(R-C-S): If user dials digits, digits are processed as indicated. 1) APPLY TOLL RESTRICTION to all digits including CO access code. 2) CONVERTED 3) SEIZE CO LINE 1: TYPE 2(C-S-R[A]): If user dials digits, digit are processed as indicated. 1) CONVERTED 2) SEIZE CO LINE 3) APPLY TOLL RESTRICTION to all digits including CO access code. 2: TYPE 3(C-S-R[E]): If user dials digits, digit are processed as indicated. 1) CONVERTED 2) SEIZE CO LINE 3) APPLY TOLL RESTRICTION to external telephone number | 0: TYPE 1 1: TYPE 2 2: TYPE 3 | TYPE 3 |
| Transfer CO call to COS 0 Station | Determines Transfer CO call to COS 0 Station. | ON/OFF | ON |
| Add CO access code to incoming call log | Determines Add CO access code to incoming call log. | ON/OFF | ON |
| Codec Type | Determines Codec Type(related to Zone Attribute(PGM 395) Codec Type). | G.711 G.723 G.729 G.722 | G.711 |

| ATTRIBUTE/ DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|--|-------------|
| Backlight Auto Mode | This entry allows backlight option of LIP Phone with ring mode | 0: All Off 1: Day On 2: Night On 3: Timed On 4: D/N On 5: D/T On 6: N/T On 7: All On | Day On |
| System Password Usage | Determines system password usage. | 0.ID/Password 1. ID only 2. Password only | ID/Password |
| Emergency CO Usage | When emergency call is activated, assigned CO line can be seized forcibly. | 0: OFF 1: ON | OFF |
| Hold Preference | Determines Hold Preference for each tenant. | 0: System Hold 1: Exclusive Hold | System Hold |
| Add CO Access code in App. Call Log | Determines if CO access code is added in call log of application such as UCS Client, Phontage. | 0: OFF 1: ON | ON |
| Display dialed CO access code | Determines if CO access code is displayed in LCD. | 0: OFF 1: ON | OFF |
| OffNet Call Forward Tone (Normal CO/Digital-R2 Type) | Determines if system provides Off Net Call forward tone when a call is forwarded to off net. | 0: No Tone 1. No Tone, Tone 2.No Tone, After 3.Tone, No Tone 4.Tone, Tone 5.Tone, After 6.After, No Tone 7.After Tone 8.After, After | No Tone |
| DID Called Number Display | Determines if DID number is displayed | 0: OFF 1: ON | OFF |

1.5.9.6 Tenant Group Access – PGM Code 283

Selecting Tenant Group Access will display the page shown, Figure 1.5.9.6-1.

| Tenant Number | | Accessed Tenant | | | | | | | | |
|------------------------|---------|---|---|---|---|---|---|---|---|---|
| | | CO | | | | | | | | |
| Accessing Tenant CO | Group 1 | <input checked="" type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 2 | <input type="checkbox"/> Group 1 | <input checked="" type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 3 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input checked="" type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 4 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input checked="" type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 5 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input checked="" type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 6 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input checked="" type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 7 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input checked="" type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 8 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input checked="" type="checkbox"/> Group 8 | <input type="checkbox"/> Group 9 |
| | Group 9 | <input type="checkbox"/> Group 1 | <input type="checkbox"/> Group 2 | <input type="checkbox"/> Group 3 | <input type="checkbox"/> Group 4 | <input type="checkbox"/> Group 5 | <input type="checkbox"/> Group 6 | <input type="checkbox"/> Group 7 | <input type="checkbox"/> Group 8 | <input checked="" type="checkbox"/> Group 9 |

Save

Figure 1.5.9.6-1 Tenant Group Access

Stations in a group are allowed or denied access to place intercom/CO calls to stations in other groups on a group-by-group basis.

1.5.9.7 Call Restriction – PGM Codes 284–285

Selecting Call Restriction will display the page shown, Figure 1.5.9.7-1.

Figure 1.5.9.7-1 Call Duration Restrict Attributes

The Call Time Restriction can be applied differently according to Call types (ICM, Incoming, Normal Outgoing, Mobile, Local, Long Distance or International Call).

30 Restriction Table can be served for every station and every station can be assigned for reference one of restriction table. Each restriction table has restriction rule about ICM, Incoming, Normal Outgoing, Mobile, Local, Long Distance or International Call and about dedicated CO line.

Table 1.5.9.7-1 Call Duration Restriction

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------------------------|---|--|-------------------|
| Restriction (ICM Call) | Determines the call restriction for Internal Call. | No restriction, Restriction | No restriction |
| Restriction (Incoming Call) | Determines the call restriction for Incoming Call. | No restriction, Restriction | No restriction |
| Restriction (Normal Outgoing Call) | Determines the call restriction for Normal Outgoing Call. (Normal Outgoing Call means not Prefix Outgoing Call and not Mobile Outgoing Call) | No restriction, Restriction | No restriction |
| Restriction (Prefix Outgoing Call) | Determines restriction of Normal CO line. | No restriction, All call, Long/International call, International call | No restriction |
| Restriction (Dedicated CO Line) | Determines restriction of TIE line. | No restriction, Restriction | No restriction |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---|--|---|------------------------|
| Restriction (Mobile Call) | Determines the call restriction for Outgoing Call with defined Mobile Number. | No restriction, Restriction | No restriction |
| Call Restriction Time (ICM Call) | Determines the Restriction timer of Internal calls. | 001–100 | 003 |
| Call Restriction Time (Incoming Call) | Determines the Restriction timer of Incoming calls. | 001–100 | 003 |
| Call Restriction Time (Normal Outgoing Call) | Determines the Restriction timer of Outgoing calls. | 001–100 | 003 |
| Call Restriction Time (Local Call) | Determines the Restriction timer of Local calls. | 001–100 | 003 |
| Call Restriction Time (Long Call) | Determines the Restriction timer of Long Distance calls. | 001–100 | 003 |
| Call Restriction Time (International Call) | Determines the Restriction timer of International calls. | 001–100 | 003 |
| Call Restriction Time (Dedicated Line Call) | Determines the Restriction timer of Dedicated Line calls. | 001–100 | 003 |
| Call Restriction Time (Mobile Call) | Determines the Restriction timer of Mobile calls. | 001–100 | 003 |
| Service Rule After Restriction Time (ICM Call) | Determines the operation of Internal calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Incoming Call) | Determines the operation of Incoming calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Local Call) | Determines the operation of Normal Outgoing calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Local Call) | Determines the operation of Local calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Long Distance Call) | Determines the operation of Long Distance calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (International Call) | Determines the operation of International calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Dedicated Line Call) | Determines the operation of TIE calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |
| Service Rule After Restriction Time (Mobile Call) | Determines the operation of Mobile calls after the Restriction timer expires. | 0: Single tone 1: Repeat tone 2: Warning tone & Drop | Warning tone & Drop |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--|--|---------|---------|
| Warning Tone Service Time before Line Disconnection (ICM Call) | Determines entry defines Disconnect timer of Internal calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Incoming Call) | Determines entry defines Disconnect timer of Incoming calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Normal Outgoing Call) | Determines entry defines Disconnect timer of Outgoing calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Local Call) | Determines entry defines Disconnect timer of Local calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Long Call) | Determines the disconnect timer of Long Distance calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (International Call) | Determines the Disconnect timer of International calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Dedicated Line Call) | Determines the Disconnect timer of Dedicated Line calls. | 10–60 | 15 |
| Warning Tone Service Time before Line Disconnection (Mobile Call) | Determines entry defines Disconnect timer of Mobile calls. | 10–60 | 15 |
| Repeat Tone Interval Time (ICM Call) | Determines the Tone Repeat timer of Internal calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Incoming Call) | Determines the Tone Repeat timer of Incoming calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Normal Outgoing Call) | Determines the Tone Repeat timer of Normal Outgoing calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Local Call) | Determines the Tone Repeat timer of Local calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Long Call) | Determines the Tone Repeat timer of Long Distance calls. | 010–254 | 020 |
| Repeat Tone Interval Time (International Call) | Determines the Tone Repeat timer of International calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Dedicated Line Call) | Determines the Repeat timer of Dedicated Line calls. | 010–254 | 020 |
| Repeat Tone Interval Time (Mobile Call) | Determines the Tone Repeat timer of Mobile calls. | 010–254 | 020 |

1.5.9.8 Local Call Prefix Tables – PGM Code 286

Selecting Local Call Prefix Table will display the page shown, Figure 1.5.9.8-1.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left has 'Tenant Data' expanded, showing various configuration options. The main content area is titled '[Local Call Prefix Table]'. It features a form to 'Enter Tenant Number (1~9):' with a 'Load' button and a 'Save' button. Below this is a table with three columns: 'Index', 'Value', and 'Range'. The table contains 19 rows, each with an index from 1 to 19, a text input field for the value, and the range 'MAX 4 Digits'.

| Index | Value | Range |
|-------|----------------------|--------------|
| 1 | <input type="text"/> | MAX 4 Digits |
| 2 | <input type="text"/> | MAX 4 Digits |
| 3 | <input type="text"/> | MAX 4 Digits |
| 4 | <input type="text"/> | MAX 4 Digits |
| 5 | <input type="text"/> | MAX 4 Digits |
| 6 | <input type="text"/> | MAX 4 Digits |
| 7 | <input type="text"/> | MAX 4 Digits |
| 8 | <input type="text"/> | MAX 4 Digits |
| 9 | <input type="text"/> | MAX 4 Digits |
| 10 | <input type="text"/> | MAX 4 Digits |
| 11 | <input type="text"/> | MAX 4 Digits |
| 12 | <input type="text"/> | MAX 4 Digits |
| 13 | <input type="text"/> | MAX 4 Digits |
| 14 | <input type="text"/> | MAX 4 Digits |
| 15 | <input type="text"/> | MAX 4 Digits |
| 16 | <input type="text"/> | MAX 4 Digits |
| 17 | <input type="text"/> | MAX 4 Digits |
| 18 | <input type="text"/> | MAX 4 Digits |
| 19 | <input type="text"/> | MAX 4 Digits |

Figure 1.5.9.8-1 Local Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.9 Long Distance Call Prefix Tables – PGM Code 287

Selecting Long Call Prefix Table will display the Tenant page shown, Figure 1.5.9.9-1.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar menu is expanded, showing 'Tenant Data' as the selected category. The main content area is titled '[Long Distance Call Prefix Table]'. It features a form to 'Enter Tenant Number (1~9):' with a 'Load' button and a 'Save' button. Below this, a table displays the configuration for Tenant Number 1. The table has three columns: 'Index', 'Value', and 'Range'. The 'Value' column contains input fields for each index, and the 'Range' column specifies 'MAX 4 Digits' for all indices from 1 to 19.

| Index | Value | Range |
|-------|----------------------|--------------|
| 1 | <input type="text"/> | MAX 4 Digits |
| 2 | <input type="text"/> | MAX 4 Digits |
| 3 | <input type="text"/> | MAX 4 Digits |
| 4 | <input type="text"/> | MAX 4 Digits |
| 5 | <input type="text"/> | MAX 4 Digits |
| 6 | <input type="text"/> | MAX 4 Digits |
| 7 | <input type="text"/> | MAX 4 Digits |
| 8 | <input type="text"/> | MAX 4 Digits |
| 9 | <input type="text"/> | MAX 4 Digits |
| 10 | <input type="text"/> | MAX 4 Digits |
| 11 | <input type="text"/> | MAX 4 Digits |
| 12 | <input type="text"/> | MAX 4 Digits |
| 13 | <input type="text"/> | MAX 4 Digits |
| 14 | <input type="text"/> | MAX 4 Digits |
| 15 | <input type="text"/> | MAX 4 Digits |
| 16 | <input type="text"/> | MAX 4 Digits |
| 17 | <input type="text"/> | MAX 4 Digits |
| 18 | <input type="text"/> | MAX 4 Digits |
| 19 | <input type="text"/> | MAX 4 Digits |

Figure 1.5.9.9-1 Long Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.10 International Call Prefix Tables – PGM Code 288

Selecting International Call Prefix Table will display the page shown, Figure 1.5.9.10-1.

The screenshot displays the iPECS web administration interface. The left sidebar contains a menu with various configuration options, including 'Tenant Data' which is expanded. The main content area is titled '[International Call Prefix Table]'. It features a form for 'Enter Tenant Number (1~9):' with a 'Load' button and a 'Save' button. Below this, a table is shown for 'Tenant Number : 1'. The table has three columns: 'Index', 'Value', and 'Range'. The 'Range' column consistently shows 'MAX 4 Digits' for all indices from 1 to 19.

| Index | Value | Range |
|-------|-------|--------------|
| 1 | | MAX 4 Digits |
| 2 | | MAX 4 Digits |
| 3 | | MAX 4 Digits |
| 4 | | MAX 4 Digits |
| 5 | | MAX 4 Digits |
| 6 | | MAX 4 Digits |
| 7 | | MAX 4 Digits |
| 8 | | MAX 4 Digits |
| 9 | | MAX 4 Digits |
| 10 | | MAX 4 Digits |
| 11 | | MAX 4 Digits |
| 12 | | MAX 4 Digits |
| 13 | | MAX 4 Digits |
| 14 | | MAX 4 Digits |
| 15 | | MAX 4 Digits |
| 16 | | MAX 4 Digits |
| 17 | | MAX 4 Digits |
| 18 | | MAX 4 Digits |
| 19 | | MAX 4 Digits |

Figure 1.5.9.10-1 International Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.11 Mobile Call Prefix Tables – PGM Code 289

Selecting Mobile Call Prefix Table will display the page shown, Figure 1.5.9.11-1.

The screenshot displays the iPECS Web Administration interface. The left sidebar shows a menu with 'Tenant Data' selected. The main area is titled 'Mobile Call Prefix Table' and contains a table with 22 rows. Each row has an 'Index' column, a 'Value' input field, and a 'Range' column. The table is titled 'Mobile Call Prefix Table' and includes a 'Save' button.

| Index | Value | Range |
|-------|-------|--------------|
| 1 | | MAX 4 Digits |
| 2 | | MAX 4 Digits |
| 3 | | MAX 4 Digits |
| 4 | | MAX 4 Digits |
| 5 | | MAX 4 Digits |
| 6 | | MAX 4 Digits |
| 7 | | MAX 4 Digits |
| 8 | | MAX 4 Digits |
| 9 | | MAX 4 Digits |
| 10 | | MAX 4 Digits |
| 11 | | MAX 4 Digits |
| 12 | | MAX 4 Digits |
| 13 | | MAX 4 Digits |
| 14 | | MAX 4 Digits |
| 15 | | MAX 4 Digits |
| 16 | | MAX 4 Digits |
| 17 | | MAX 4 Digits |
| 18 | | MAX 4 Digits |
| 19 | | MAX 4 Digits |
| 20 | | MAX 4 Digits |
| 21 | | MAX 4 Digits |
| 22 | | MAX 4 Digits |

Figure 1.5.9.10-1 Mobile Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.12 Tone Tables – PGM Code 290

Selecting Tone Table will display the page shown, Figure 1.5.9.12-1.

Figure 1.5.9.12-1 Tone Table

The system provides 78 tone types. Each tone may be assigned as normal tone, VMIB prompt/Announcement or internal/external music

Table 1.5.9.12-1 Tone Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------------|---|---|---------|
| Tone Type | The Tone type | 01: Normal Tone 02: VMIB Prompt 03: VMIB Announcement 04: Internal MOH 05: External MOH 06-09: VMIB MOH 1/2/3/4 10-14: SLT MOH 1-5 15: Not Use | |
| Tone Time | Determines the amount of time the tone is provided. | 0-600 | |
| Tone Port | The Tone port index of PGM 264. The cadence of tone port may be changed by web-admin. | 1-19 | |
| Prompt/Announcement No. | The VMIB Prompt or Announcement number [PGM 259] when tone type is VMIB Prompt or announcement. | 1-255 | |
| Prompt / Announcement Repeat number | The VMIB Prompt or Announcement Repeat number when tone type is VMIB Prompt or announcement. | 0-100 | |
| Prompt / Announcement Interval | The VMIB Prompt or Announcement Repeat interval when VMIB Prompt or announcement. Repeat is assigned. | 0-100 | |

Table 1.5.9.12-2 Tone Index Table

| INDEX | TONE NAME | DESCRIPTION |
|-------|--|---|
| 1 | 1st Dial Tone | This is provided when station goes off-hook. |
| 2 | 2nd Dial Tone | This is provided when station presses [TRANS] button during conversation to transfer the call. |
| 3 | CO Dial Tone | This is provided to transit CO line if he accesses CO line which does not provide CO Dial Tone. |
| 4 | DISA Dial Tone | This is provided to external caller through DISA. |
| 5 | LCR Virtual Tone | Reserved |
| 6 | Digit Conversion Virtual Tone | This is provided when station dials 'Dummy Dial-Tone Digit' in PGM 240. |
| 7 | Password Dial Tone | This is provided when station dials conference room number having password. |
| 8 | Internal Busy Tone | This is provided to external caller through DID/DISA when he calls the busy station. |
| 9 | External Busy Tone | This is provided when station makes an external call to telephone in use. |
| 10 | CO Line Busy Tone | This is provided to station when there is no idle CO line. |
| 11 | Uncompleted Dial Error Tone | This is provided when station does not dial within inter-digit timer during dialing. |
| 12 | DOD Restriction Tone | This is provided when station dials the toll restriction digits. |
| 13 | Internal No-Answer Tone | This is provided when the called station does not answer within 'Normal Call Ring Time' of Ring Table. |
| 14 | External No-Answer Tone | This is provided when the called external user does not answer. |
| 15 | Internal Vacant Error Tone | This is provided when stations calls vacant number. |
| 16 | External Vacant Error one | This is provided when stations calls vacant external telephone number. |
| 17 | Call Duration Restriction Tone | Reserved |
| 18 | Anonymous Call Restriction Tone | Reserved |
| 19 | Error Tone (All the other cases) | This is provided in all error cases |
| 20 | Relative Blocking | This is provided when station calls the blocked station. |
| 21 | Relative Line Lock Out | This is provided when station calls station hearing howling tone |
| 22 | Relative Do Not Disturb | This is provided when station calls station in DND. |
| 23 | Relative Absence | Reserved |
| 24 | Relative Out of Order | Reserved |
| 25 | External Relative Out of Order | Reserved |
| 26 | External Relative Outgoing Restriction | Reserved |
| 27 | Relative Hot Desk Logout | Reserved |
| 28 | Howling Tone | This is provided after error tone. |
| 29 | 1 st Ring Back Tone | This is provided when station calls another station. |
| 30 | 2 nd Ring Back Tone | Reserved |
| 31 | CO Ring Back Tone | This is provided to external caller if the incoming call is routed to the destination. And it is provided when station calls external call through CO line with 'Provided Ring Back Tone' in PGM 171. |
| 32 | Recall Ring Back Tone | Reserved |
| 33 | Zone Paging Call Ring Back Tone | This is provided when station makes a paging. |
| 34 | Command Call Ring Back Tone | This is provided when station makes a command conference group call. |
| 35 | Alert Message Wait | This is provided when station goes off hook if message is left. |
| 36 | Alert Do not Disturb | This is provided when station goes off hook if DND is set. |
| 37 | Alert Call Forward | This is provided when station goes off hook if Call Forward is set. |
| 38 | Alert Absence | This is provided when station goes off hook if pre-selected message is set. |

| INDEX | tone name | DESCRIPTION |
|-------|---------------------------------|---|
| 39 | Camp on Alarm | This is provided to station if camp-on is requested. |
| 40 | Conference Alarm | This is provided to station if station makes conference call. |
| 41 | Conference Join | This is provided when station adds conference member. |
| 42 | Call Wait Alarm | This is provided to station if call-wait is requested. |
| 43 | Break In Alarm | Reserved |
| 44 | Conference Room In | This is provided when station enters conference room. |
| 45 | Conference Room Out | This is provided when conference member is deleted. |
| 46 | Call Duration Restriction Alarm | This is provided to station with CDR disconnection indication before the forced disconnection. |
| 47 | Confirm Tone | This is confirmation tone. |
| 48 | Single Error Tone | This is provided when station dials wrong input during programming. |
| 49 | Transfer Hold Tone | This is provided to the external user when he is transferred. |
| 50 | Transfer Hold Tone (Station) | This is provided to the station when he is transferred. |
| 51 | Camp On Hold Tone (CO) | This is provided to the external user when using camp on. |
| 52 | Camp On Hold Tone (Station) | This is provided to the station when he is camped on. |
| 53 | Call Wait Hold Tone (CO) | This is provided to the external user when he is waited |
| 54 | Call Wait Hold Tone (Station) | This is provided to the station when he is waited. |
| 55 | Normal Hold Tone (CO) | This is provided to the external user in hold. |
| 56 | Normal Hold Tone (Station) | This is provided to station in hold. |
| 57 | Normal Hold Tone (Attendant) | Reserved |
| 58 | Call Park Hold Tone | This is provided to the external user in parked. |
| 59 | Call Park Hold Tone (Station) | This is provided to the station in parked. |
| 60 | IC Auto Hold Tone | This is provided when conference member is held. |
| 61 | IC Auto Hold Tone (Attendant) | Reserved |
| 62 | Command Call Answer Tone | Reserved |
| 63 | R2 Normal Outgoing Tone | Reserved |
| 64 | R2 Off-net Call Forward Tone | Reserved |
| 65 | Wake-up Answer Tone | This is provided when station answers wake-up ring. |
| 66 | Service Set Tone | This is provided when station sets programming. |
| 67 | DISA Retry Tone | This is provided as DISA retry tone when external user dials wrong digits. |
| 68 | ICLID Restrict Tone | Reserved |
| 69 | Auto Call Answer Alert Tone | This is provided when station is connected with handsfree. |
| 70 | VM Interaction Confirm Tone | This is provided when station records his call through USB module. |
| 71 | Authorization Code Dial Tone | This is provided when station is requested auth code dial at the call forward assign, walking co and so on. |
| 72 | Tenant Dial Tone | Reserved |
| 73 | Two-way Record Warning Tone | This is provided to the associate party when station starts call recording. |
| 74 | TIE Line Ring Back Tone | This is provided when an outgoing call is made through TIE lines. |
| 75 | LCM Traffic Over Tone | This is provided when LCM traffic overflows its maximum. |
| 76 | Screened Transfer Alert Tone | This is provided to the associate parties when screened transfer is completed. |
| 77 | Monitor Record Warning Tone | This is provided to the associate parties when silent monitor feature is started |
| 78 | Wireless Station Searching Tone | When a DECT station is called, the caller will hear this tone until the called station is found. |

1.5.9.13 Digit Map Option Tables – PGM Code 291

Selecting Digit Map Option Table will display the page shown, Figure 1.5.9.13-1.

iPECS Administration S/W Upgrade System Management Log Out

[Digit Map Option Table]

Enter Table No. (1~20): Load Save

Table No : 1

| Attribute | Value | Range |
|--|----------------------|-------------------|
| Apply type for CO line | Not Use | |
| Duplication Digit Timer | 30 | 10-200 (100 msec) |
| -. Apply for Enbloc/All CO Line(user dialed digit): user dialed digit can be applied (except CO access code) -. Apply for Enbloc/All CO Line(real PSTN number): real PSTN number can be applied (except CO access code) | | |
| Digit Map Digit Table No. [PGM 292] | | |
| Digit Map Index 1 | <input type="text"/> | 1-100 |
| Digit Map Index 2 | <input type="text"/> | 1-100 |
| Digit Map Index 3 | <input type="text"/> | 1-100 |
| Digit Map Index 4 | <input type="text"/> | 1-100 |
| Digit Map Index 5 | <input type="text"/> | 1-100 |
| Digit Map Index 6 | <input type="text"/> | 1-100 |
| Digit Map Index 7 | <input type="text"/> | 1-100 |
| Digit Map Index 8 | <input type="text"/> | 1-100 |
| Digit Map Index 9 | <input type="text"/> | 1-100 |
| Digit Map Index 10 | <input type="text"/> | 1-100 |
| Digit Map Index 11 | <input type="text"/> | 1-100 |
| Digit Map Index 12 | <input type="text"/> | 1-100 |
| Digit Map Index 13 | <input type="text"/> | 1-100 |
| Digit Map Index 14 | <input type="text"/> | 1-100 |
| Digit Map Index 15 | <input type="text"/> | 1-100 |
| Digit Map Index 16 | <input type="text"/> | 1-100 |
| Digit Map Index 17 | <input type="text"/> | 1-100 |
| Digit Map Index 18 | <input type="text"/> | 1-100 |

Figure 1.5.9.13-1 Digit Map Option Table

There are 20 “Digit Map Option Tables” and each NET Numbering Plan Table / CO line / Tenant can have “Digit Map Option table”.

(Priority: Net Numbering Plan Table → CO line → Tenant)

Table 1.5.9.13-1 Digit Map Option Table

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|--|--|---------|
| Apply type for CO line | Determines to apply type for Digit Map. | Not use Enbloc CO line (user dialed number) All CO line (User dialed number) Enbloc CO line(Real PSTN number) All CO line (Real PSTN number) | Not use |
| Duplication Digit Timer | Determines wait time when number to compare is duplicated. | 10-200 (100msec) | 30 |
| Digit Map Digit Table No | Assign Digit Map Digit Table number to apply. | 1-100 | |

1.5.9.14 Digit Map Digit Tables – PGM Code 292

Selecting Digit Map Digit Table will display the page shown, Figure 1.5.9.14-1.

The screenshot shows the iPECS Administration interface. The left sidebar lists various system data categories, with 'Digit Map Digit Table(292) [N]' selected. The main area displays the configuration for Digit Table No. 1. It includes fields for 'Table Comment' and 'Implicit digit(T)'. Below these is a table titled 'Digit Map Digit Table Entry Attributes' with columns: Index, Digit(0~9,*,#), Number Of Type, Numbering Plan, and Sending Complete. The table contains 17 rows, each with a digit and corresponding configuration options.

Figure 1.5.9.14-1 Digit Map Digit Table

There are 100 Digit Map Digit Tables in a system and each Table has 100 entries.

Each entry of “Digit Map Digit Table” has ‘Digit’, ‘Number of type’, ‘Numbering plan’, ‘Sending Complete’ and ‘Usage’.

A digit of Digit Map Digit Table can be number such as (0~9, *, #) and Option character.

Table 1.5.9.14-1 Digit Map Option Character

| Option List | Meaning | Example |
|---------------------|---|--|
| (Digit A Digit B) | 'OR' option, Digit A or B can be located. | (9 801)012 : 9012, 801012 |
| [Digit A - Digit B] | 'Range' option, all digit between A and B can be located. | [2-4]012 : 2012, 3012, 4012 |
| X | 'MASK' option, All digits can be located. | 9012XXXXXXXX : 9012 + 8 digits |
| ? | 'Duplication Digit Timer' option, Duplication digit timer(PGM291) can be applied. | 9012XXXXXX?? : 9012 + 7~8 digits |
| T | 'Implicit Digit' option, Implicit Digit(PGM292) can be located. | T012XXXXXXXX : 9012 + 8 digits (T:9) |
| . | 'End' option, Digit Map analysis can be finished. | 9010. : 9010 (without duplication digit timer) |

Table 1.5.9.14-2 Digit Map Digit Rules

| | Option | Rules |
|---|---------|--|
| 1 | X | The next digit of option 'X' should be 'X','?' or '!'. |
| 2 | ? | The next digit of option '?' should be '?'. |
| 3 | T | The option 'T' can be used only one time. |
| 4 | . | The option '!' should be used as last digit. |
| 5 | X, ?, . | These options cannot be located in a first digit. |

1.5.10 Board Data

Selecting the Board Data program group returns the sub-menu displayed in Figure 1.5.10-1.



Figure 1.5.10-1 Board Data Main Page

1.5.10.1 ISDN Board Attribute – PGM Code 300

Selecting ISDN Board Attributes will display the page shown, Figure 1.5.10.1-1.

iPECS
iPECS-MG/DX56M-B.5Aa JUN/13
Boot Version-1.1Ab AUG/11
OS Version-1.1Ab AUG/11
Find PGM
Hide Menu

Administration S/W Upgrade System Management Log Out

[ISDN/Digital Board Attribute]

Enter Slot No (2~18) :

Slot No : 2

| Attribute | Value | Remark |
|------------------------|-------------|----------------|
| PRI/T1 | | |
| CRC Check | ENABLE | |
| Line Mode | TE | |
| Caller Name Type | FACILITY | PRI(T1) Only |
| BRIB | | |
| TEI Mode | Port 1 AUTO | USE |
| | Port 2 AUTO | USE |
| | Port 3 AUTO | USE |
| | Port 4 AUTO | USE |
| T1 | | |
| T1 Mode | D4 | |
| T1 Line Mode | B8ZS | |
| T1 Pause Time | 2 | 1~9 sec |
| T1 PLS Rate | 10PPS 60/40 | |
| T1 Release Gurard Time | 20 | 1~60, 100msec |
| T1 DT Delay Time | 10 | 2~50, 100msec |
| T1 Wink Time | 10 | 7~15, 20msec |
| T1 Seize Time | 3 | 0~127, 20msec |
| T1 Release Time | 7 | 0~127, 20msec |
| T1 Ring Detect Time | 2 | 2~9, 100msec |
| T1 Ring Stop Time | 60 | 10~60, 100msec |

Figure 1.5.10.1-1 ISDN/Digital Board Attribute

PRI, BRIB, E1R2 boards have the following attributes which can be programmed using the Web Admin.

Table 1.5.10.1-1 ISDN Board Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|---|--|------------------------------|
| PRIB/T1 CRC Check | Enable CRC check of PRIB. | Disable / Enable | Enable |
| PRIB/T1 Line Mode | NT/ TE mode of PRIB; after changing mode, the board is automatically restarted. | TE / NT | TE |
| PRIB(T1) Caller Name Type | Calling party name type in Setup message. | 0: Facility IE 1: Display IE | Facility Information Element |
| BRIB TEI Mode | TEI mode of BRIB Port 1/2/3/4 | Fixed / Auto | Auto |
| BRIB Reference Clock | Reference Clock of BRIB Port 1/2/3/4 | Use/Not Use | Use |
| T1 Mode | T1 Mode (D4/ESF) | D4 ESF | D4 |
| T1 Line Mode | T1 Line Mode (B8ZS/AMI) | 0: B8ZS 1: AMI | B8ZS |
| T1 Pause Time | T1 Pause Time (100 msec) | 1-9 | 2 |
| T1 PLS Rate | T1 PLS Rate | 0: 10PPS 60/40 1: 10PPS 66/33 2: 20PPS 60/40 3: 20PPS 66/33 | 10PPS 60/40 |
| T1 Release Guard Time | T1 release guard time (100 msec) | 1-60 | 20 |
| T1 DT Delay Time | T1 DT Delay time (100 msec) | 2-50 | 10 |
| T1 Wink Time | T1 Wink time (20 msec) | 7-15 | 10 |
| T1 Seize Time | T1 seize time (20 msec) | 0-127 | 3 |
| T1 Release Time | T1 release time (20 msec) | 0-127 | 7 |
| T1 Ring Detect Time | T1 ring detect time (100 msec) | 2-9 | 2 |
| T1 Ring Stop Time | T1 ring stop time (100 msec) | 10-60 | 60 |

1.5.10.2 ISDN Board Clock Priority – PGM Code 301

Selecting ISDN Board Clock Priority Attributes will display the page, Figure 1.5.10.2-1.

The screenshot shows the iPECS-MG web administration interface. The left sidebar contains a tree view of system settings, with 'Board Data' expanded and 'ISDN Clock Priority(301)[N]' selected. The main content area is titled '[ISDN Clock Priority]' and contains a table for configuring clock priority for ISDN boards. The table has four columns: Slot No., Type, Priority, and New Priority. There are three rows of data: Slot 4 (PRIB(E1)), Slot 9 (BRIB), and Slot 10 (PRIB(E1)). Each row has a 'Priority' column with a dropdown menu and a 'New Priority' column with a text input field. A 'Save' button is located in the top right corner of the table area.

| Slot No. | Type | Priority | New Priority |
|----------|----------|----------|--------------|
| 4 | PRIB(E1) | | |
| 9 | BRIB | | |
| 10 | PRIB(E1) | | |

Figure 1.5.10.2-1 ISDN Clock Priority

In the iPECS-MG system, clock synchronization is controlled by the pre-programmed ISDN clock priority. The first ISDN board becomes clock master board and if an error occurs to clock master board, the next board takes on the role as a master clock.

After original master board is recovered, clock master board is changed again. If there is no available ISDN board to become a clock master board, the system is synchronized with internal clock.

1.5.10.3 VOIB/VMIB Board Attribute – PGM Code 305

Selecting VOIB/VMIB Attributes will display the page shown, Figure 1.5.10.3-1.

The screenshot shows the iPECS web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar menu is expanded to 'Board Data', which includes 'ISDN/Digital Board Attribute(300)[N]', 'ISDN Clock Priority(301)[N]', 'VOIB/VMIB Board ATTR(305)[N]' (selected), and 'Reset Board(310)[N]'. The main content area is titled '[VOIB/VMIB Board Attributes]'. It features a form for 'Slot No : 3'. The form contains a table with the following attributes and values:

| Attribute | Value |
|------------------------|-----------------|
| IP Address | 192.168.123.128 |
| Router IP Address | 192.168.123.254 |
| Subnet Mask | 255.255.255.0 |
| DHCP Usage | OFF |
| T38 Usage | OFF |
| RTP Security | OFF |
| VLAN (0-4096, none) | |
| Priority (0-7) | 0 |
| Diffserv (0-63) | 0 |
| Web Port (00001-65535) | 80 |

Buttons for 'Enter Slot No (0-18)', 'Load', 'Overview', and 'Save' are also visible.

Figure 1.5.10.3-1 VOIB/VMIB Attributes

Table 1.5.10.3-1 VOIB/VMIB Board Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|--------------|------------------------------------|
| IP Address | IP Address of selected slot. | IP Address | 10. 10. 10. # (# : slot number) |
| Router IP Address | Router IP Address of selected slot. | IP Address | 0.0.0.0 |
| Subnet Mask | Subnet Mask of selected slot. | IP Address | 255.255.255.0 |
| DHCP Usage | DHCP Usage. | OFF/ON | OFF |
| T38 Usage | T38 Usage. | OFF/ON | OFF |
| RTP Security | RTP Security Usage. | OFF/ON | OFF |
| VLAN | Determines VLAN value. | 0-4096, none | none |
| Priority | Determines Priority value. | 0-7 | 0 |
| Diffserv | Determines Diffserv. | 0-63 | 0 |
| WEB Port | WEB Page Port Number for VMIB. (When Selected Slot is VMIB, WEB Port menu will be displayed.) | 00001-65535 | 80 |

1.5.10.4 Reset Board – PGM Code 310

Each board in the system can be reset with this menu.

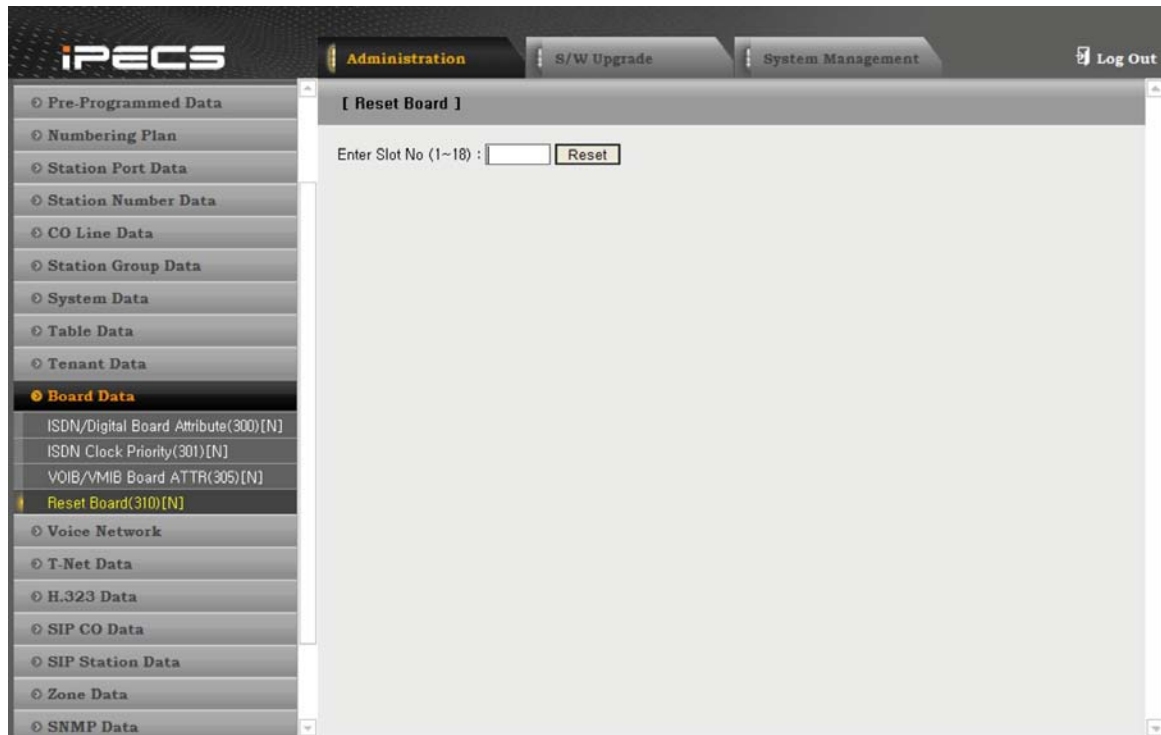


Figure 1.5.10.4-1 Reset Board

1.5.11 Networking Data

Selecting the Networking Data program group returns the sub-menu displayed, Figure 1.5.11-1.



Figure 1.5.11-1 Networking Data Main Page

1.5.11.1 Net Basic Attribute – PGM Code 320

Selecting Network Basic Attributes will display the page shown, Figure 1.5.11.1-1.

| Attribute | Value | Range |
|-----------------------------|------------------|--------------|
| NET Enable | ON | |
| NET CNIP Enable | ON | |
| NET CONP Enable | ON | |
| NET Signal Method | Facility Message | |
| NET CC Retain | ON | |
| NET BLF Usage | ON | |
| TCP Port for BLF | 9000 | 9000 - 9999 |
| UDP Port for BLF | 9001 | 9000 - 9999 |
| Duration of BLF STS | 10 | 1 - 99 (sec) |
| BLF Manager IP Address | 192.168.123.111 | |
| Own Prefix Number | | Max 8 Digits |
| Net Voice Mail Group Number | | Max 8 Digits |

Figure 1.5.11.1-1 Networking Attributes

Table 1.5.11.1-1 Network Basic Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|--|-----------|--------------|
| NET Enable | Enables Networking function. | OFF/ON | OFF |
| NET CNIP Enable | The name of calling station is sent to the called system between iPECS systems. CNIP is displayed at called party stations display based on the programming. | OFF/ON | ON |
| NET CONP Enable | The name of calling station is sent to the called system between ipLDK systems. CNIP is displayed on the called party station LCD according to ADMIN programming. If the CNIP and CLI are received together, CNIP is prior to CLI. | OFF/ON | OFF |
| NET Signal Method | Select the information element type for QSIG supplementary service message. | OFF/ON | FACILITY |
| NET CC Retain | If this value is set to ON, the networking supplementary signaling of call completion retain mode is executed. | OFF/ON | OFF |
| NET BLF Usage | Used to set Networking BLF service | OFF/ON | OFF |
| TCP Port for BLF | Used to set the TCP port for BLF messaging. | 9000-9999 | 9000 |
| UDP Port for BLF | Used to set the UDP port for BLF messaging. | 9000-9999 | 9001 |
| Duration of BLF STS | Used to set the duration of BLF status messaging. | 01-99 | 10 |
| BLF Manager IP Address | Used to set the IP Address for the BLF manager. IP Address of BLF Server used only when iPECS-MG is configured with LDK/iPECS systems for Voice Networking (Reserved). | | 0. 0. 0. 0 |
| Own Prefix Number | Assign Prefix Number for networking numbering plan of own system | | Max 8 digits |
| Net Voice Mail Group Number | Assign Centralized Voice Mail Group number to support VM MWI | | Max 8 digits |

1.5.11.2 Net Numbering Plan Table – PGM Code 321

Selecting Network Numbering Plan Table will display the page shown, Figure 1.5.11.2-1.

The screenshot shows the iPECS web interface. On the left is a sidebar with a tree view containing categories like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', 'Voice Network', 'T-Net Data', and 'H.323 Data'. The 'Voice Network' category is expanded, and 'Networking Numbering(321) [N]' is selected. The main content area is titled '[Networking Numbering Plan Table]'. It features a 'Select Index (1 - 250):' field with 'Load' and 'Overview' buttons, and a 'Save' button. Below this is a table titled 'Networking Numbering Plan Table Index 1' with three columns: 'Attribute', 'Value', and 'Range'. The table contains the following entries:

| Attribute | Value | Range |
|-------------------------------|---------|--|
| Numbering Plan type | NET | |
| Numbering Plan Code | 3999 | Max 8 Digits(include *,#,X) [System Numbering Plan] |
| Outgoing CO Group No | | 1-72 |
| AND Digit | | Max 10 Digits |
| AND Digit Repeat | OFF | |
| Digit Sending Mode | Overlap | |
| CPN INFORMATION 1 | 0.0.0.0 | Enter IP Address |
| CPN INFORMATION 2 | 0.0.0.0 | Enter IP Address |
| CPN INFORMATION 3 | 0.0.0.0 | Enter IP Address |
| CPN INFORMATION 4 | 0.0.0.0 | Enter IP Address |
| Destination System IP Address | 0.0.0.0 | |
| Destination System Port | 9000 | 0-9999 |
| Firewall Routing | OFF | |
| Digit Map Option Table Index | | 1-20, empty=not assign |

Figure 1.5.11.2-1 Networking Numbering

Table 1.5.11.2-1 Network Numbering Plan

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|--|-------------------|---------|
| Numbering Plan Type | Used to set the networking numbering plan type of the selected table entries. | NET / TRANSIT | NET |
| Numbering Plan Code | Used to set the networking number code of the selected table entries. 'X' means any digits can be inserted between 0-9. (Select 'MUTE' button for input 'X'.) | 8digits | |
| Outgoing CO Group No | Used to select the CO line group for routing networking calls. | 01-72 | |
| AND digit | This AND digits added when Digit Repeat option is ON. | 10 digits | |
| AND Digit Repeat | When the number plan code (Flex 2) is for PSTN call or transit-call, this number code can be enveloped in SETUP message if set to ON. | ON/OFF | OFF |
| Digit Sending Mode | Used to set the digit sending mode(Overlap or Enblock) of the selected table entries. | Enblock / Overlap | Overlap |
| CPN Information 1-4 | CPN information for ISDN, IP address for VOIP (CPN info 1-CPN info 4). | | |
| Destination System IP Address | IP address of destination system used only when iPECS-MG is configured with LDK/iPECS systems for Voice Networking. | | 0.0.0.0 |
| Destination System Port | Used to set the UDP port for sending the message such as DECT mobility to destination system. | 0-9999 | 9000 |
| Firewall Routing | This ADMIN program determines that this table is local network or different network. Select IP address (Firewall IP address or Non-firewall IP address); if the destination system is in same VPN then Non-firewall IP address should be sent. ON: Send firewall IP address OFF: Send Non-firewall(Internal) IP address | OFF/ON | OFF |
| Digit Map Option Table Index | Used to select Digit Map option table | 01-20 | - |

1.5.12 T-Net Data

Selecting the TNET Data program group returns the sub-menu displayed in Figure 1.5.12-1.



Figure 1.5.12-1 T-Net Data

In a Centralized Control TNET (Transparent Networking), remote devices may be registered to a Central MFIM (CM) and to a Local MFIM (LM). In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (2 second polling error), the LM will initiate operational control of the locally registered devices. Calls between the systems (CM & LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

1.5.12.1 T-Net Attribute – PGM Code 330

Selecting T-Net Attributes will display the page shown, Figure 1.5.12.1-1.

The screenshot displays the iPECS web administration interface. On the left is a navigation menu with various system data categories. The 'T-Net Data' category is selected, and 'T-Net Attribute(330)[N]' is highlighted. The main content area is titled '[Tnet Basic Attributes]' and contains a table with the following data:

| Attribute | Value | Range |
|-------------|-------|-------|
| Tnet Enable | OFF | |

Below the table is a 'Save' button. The interface also includes a top navigation bar with 'Administration', 'S/W Upgrade', and 'System Management' tabs, and a 'Log Out' button in the top right corner.

Figure 1.5.12.1-1 T-Net Attribute

Each MFIM in a Central Control network environment must be enabled for TNET operation in order to function as part of the network.

1.5.12.2 CM Attribute – PGM Code 331

Selecting CM Attributes will display the page shown, Figure 1.5.12.2-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a list of data categories: Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data (selected), T-Net Attribute(330)[N], CM Attribute(331)[N] (highlighted), FoPSTN Attribute(333)[N], T-Net Board Attribute(334)[N], IP-Phone T-Net Enable(335)[N], H.323 Data, SIP Data, Zone Data, SNMP Data, DECT Data, and Green Mode. The main content area is titled '[Tnet CM Attribute]' and contains a table with the following attributes:

| Attribute | Value | Range |
|-------------------|---------|-----------|
| Register Enable | ON | |
| IP Address | 0.0.0.0 | Connect |
| IPKTS Port number | 5588 | 0001-9999 |
| Total no of port | 0 | 000-999 |
| Polling Count | 5 | 00-99 |
| Polling Interval | 2 | 00-99 |

Below the table is a 'Save' button.

Figure 1.5.12.2-1 CM Attributes

Each LM (Local MFIM), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central MFIM) as well as the LM configuration data that will be sent to the CM at the time the LM registers with the CM. Total port counts define the ports, which are allocated in the CM database for use by devices registered to the LM.

Table 1.5.12.2-1 CM Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|-----------------|------------|
| Register Enable | Sets the LM to attempt registration with the CM. This field must be set to ON for proper registration. | 0: OFF 1: ON | ON |
| IP Address | Determines the IP address of the CM used by the LM. | IPv4 address | 0. 0. 0. 0 |
| IPKTS Port number | In the TNET environment, the IP KTS protocol signaling UDP port is defined (do not change from default). | 0001- 9999 | 5588 |
| Total no of ports | Determines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices. | 000-999 | 000 |
| Polling Count | Determines the maximum polling failures an LM considers a WAN fault. | 00-99 | 05 |
| Polling Interval | Determines the interval time between LM to CM polling attempts. | 00-99 | 02 |

1.5.12.3 FoPSTN Attribute – PGM Code 333

Selecting FoPSTN table will display the page shown, Figure 1.5.12.3-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a list of data categories: Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data (highlighted), T-Net Attribute(330)[N], CM Attribute(331)[N], FoPSTN Attribute(333)[N] (highlighted), T-Net Board Attribute(334)[N], IP-Phone T-Net Enable(335)[N], H.323 Data, SIP Data, Zone Data, SNMP Data, DECT Data, and Green Mode. The main content area is titled '[Fail over to PSTN]' and contains a 'Save' button, 'Enable FoPSTN' dropdown (set to OFF), and 'Initialize FoPSTN' checkbox. Below is a table with 17 rows, each with columns for Index, Numbering Plan, CO Group, and Tel Number. The table is divided into three sections: [1-50], [51-100], and [101-150]. The last row is labeled [151-200].

Figure 1.5.12.3-1 FoPSTN Attributes

The Fail-over function allows the systems in a Centralized Control network (TNET) environment to complete calls from system to system over a PSTN (analog or digital) line should the WAN connection to the CM fail. A CO gateway Module must be registered to the LM for local control and access CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM. When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the telephone number with the station number dialed as the trailing digits.

Table 1.5.12.3-1 FoPSTN Attributes

| DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------|---|--------------------------------|---------|
| Enable FoPSTN | This field is used to enable or disable Fail-over operation from the CM or LM. | 0: OFF 1: ON | OFF |
| Initialize FoPSTN | Initializes the FO table. | | |
| Index | | 1-100(MG-100) 1-200(MG-300) | |
| Numbering Plan | Station numbers associated with the remote system. | Max. 16 | |
| CO Group | Defines the CO Group of the local system that will be used to place calls to the stations entered in the FO Numbering Plan, should WAN failure occur. | 1-24(MG-100) 1-72(MG-300) | |
| Tel Number | Defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should Wan failure occur. | Max. 10 | |

1.5.12.4 T-Net Board Attribute – PGM Code 344

Selecting T-Net Board Attribute will display the page shown, Figure 1.5.12.4-1.

The screenshot displays the iPECS web administration interface. The left sidebar contains a menu with various system data categories. The 'T-Net Data' category is expanded, and 'T-Net Board Attribute(334)[N]' is selected. The main content area is titled '[Tnet Board Attributes]'. It includes a form for configuring T-Net board attributes. At the top, there is a field 'Enter Slot No (2~56) :' with a 'Load' button. Below this, 'Slot No : 2' is displayed. A table with two columns, 'Attribute' and 'Value', is shown. The table contains one row: 'TNET Enable' with a value of 'OFF' (indicated by a dropdown arrow). A 'Save' button is located below the table.

| Attribute | Value |
|-------------|-------|
| TNET Enable | OFF |

Figure 1.5.12.4-1 T-Net Board Attribute

When a board or iPECS-gateway module is connected in a Centralized Control network (TNET), the TNET operation of the board or iPECS-gateway module can be enabled or disabled.

1.5.12.5 IP-Phone T-Net Enable – PGM Code 335

Selecting IP-Phone T-Net Enable will display the page shown, Figure 1.5.12.5-1.

iPECS Administration S/W Upgrade System Management Log Out

[IP-Phone T-Net Enable]

Station Order : [1-50][51-100][101- 150][151- 200]
[201- 250][251- 300][301- 324]

| Check All | No. | Station Number | Select All |
|--------------------------|-----|----------------|--------------------------|
| <input type="checkbox"/> | 1 | 1080 | <input type="checkbox"/> |
| <input type="checkbox"/> | 2 | 1081 | <input type="checkbox"/> |
| <input type="checkbox"/> | 3 | 1082 | <input type="checkbox"/> |
| <input type="checkbox"/> | 4 | 1083 | <input type="checkbox"/> |
| <input type="checkbox"/> | 5 | 1084 | <input type="checkbox"/> |
| <input type="checkbox"/> | 6 | 1085 | <input type="checkbox"/> |
| <input type="checkbox"/> | 7 | 1086 | <input type="checkbox"/> |
| <input type="checkbox"/> | 8 | 1087 | <input type="checkbox"/> |
| <input type="checkbox"/> | 9 | 1088 | <input type="checkbox"/> |
| <input type="checkbox"/> | 10 | 1089 | <input type="checkbox"/> |
| <input type="checkbox"/> | 11 | 1090 | <input type="checkbox"/> |
| <input type="checkbox"/> | 12 | 1091 | <input type="checkbox"/> |
| <input type="checkbox"/> | 13 | 1092 | <input type="checkbox"/> |
| <input type="checkbox"/> | 14 | 1093 | <input type="checkbox"/> |
| <input type="checkbox"/> | 15 | 1094 | <input type="checkbox"/> |
| <input type="checkbox"/> | 16 | 1095 | <input type="checkbox"/> |
| <input type="checkbox"/> | 17 | 1096 | <input type="checkbox"/> |
| <input type="checkbox"/> | 18 | 1097 | <input type="checkbox"/> |
| <input type="checkbox"/> | 19 | 1098 | <input type="checkbox"/> |
| <input type="checkbox"/> | 20 | 1099 | <input type="checkbox"/> |

Save

Figure 1.5.12.5-1 IP-Phone T-Net Enable

When an IP-Phone is connected in a Centralized Control network (TNET), the TNET operation of the IP Phone can be enabled or disabled.

1.5.13 H.323 Data

Selecting the H.323 Data program group returns the sub-menu displayed in Figure 1.5.13-1.



Figure 1.5.13-1 H.323 Data Main Page

1.5.13.1 H.323 Routing Attributes – PGM Code 360

Selecting H.323 Routing Attributes will display the page shown, Figure 1.5.13.1-1.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left includes options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', 'Voice Network', 'T-Net Data', 'H.323 Data', 'H.323 Routing Attribute(360)[N]', 'H.323 VOIP Attribute(361)[N]', 'H.323 Incoming ATTR(362)[N]', 'GK Attribute(363)[N]', 'SIP Data', 'Zone Data', and 'SNMP Data'. The 'H.323 Data' section is expanded, and 'H.323 Routing Attribute(360)[N]' is selected. The main content area is titled '[H.323 Routing Attributes]' and contains a form for configuring these attributes. It includes a 'Check All' checkbox, a table with columns 'Index', 'Attribute', 'Value', and 'Range', and a 'Save' button. The table lists attributes for CO Group Range from 1 to 1, with each attribute having a 'Digit' and a 'Destination IP Address' field.

| Check All | Index | Attribute | Value | Range |
|--------------------------|-------|------------------------|---------|--------------|
| <input type="checkbox"/> | 1 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 2 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 3 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 4 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 5 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 6 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 7 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 8 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |
| <input type="checkbox"/> | 9 | Digit | | Max 8 Digits |
| | | Destination IP Address | 0.0.0.0 | |

Figure 1.5.13.1-1 H.323 Routing Attributes

To allow direct H.323, the system assigns unique number to each H.323 IP address. Direct H.323 can be made by dialing the assigned number.

Table 1.5.13.1-1 H.323 Routing Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------|--|---------------|------------|
| Digit | Designates numbers associated with the H. 323 routing system. | Max. 8 digits | |
| Destination IP Address | Designates IP address associated with the H. 323 routing system. | | 0. 0. 0. 0 |

1.5.13.2 H.323 Call Setup Attribute – PGM Code 361

Selecting H.323 Call Setup Attributes will display the page shown, Figure 1.5.13.2-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a list of system settings, with 'H.323 Data' expanded and 'H.323 Call Attribute(361)[N]' selected. The main area displays the 'H.323 Call Setup Attributes' configuration page. At the top, there are tabs for 'Administration', 'S/W Upgrade', and 'System Management', along with a 'Log Out' button. Below the tabs, there is a header for '[H.323 Call Setup Attributes]'. The page includes a form for 'Enter CO Group Range (1~72):' with a 'Load' button and a 'Save' button. Below this, it shows 'CO Group Range from 3 to 3'. A table lists the attributes for this range:

| Check All | Attribute | Value | Range |
|--------------------------|----------------------|-----------------|-------|
| <input type="checkbox"/> | H.323 Setup Mode | Fast Connection | |
| <input type="checkbox"/> | H.323 Tunneling Mode | ON | |
| <input type="checkbox"/> | H.323 DTMF Path | Inband | |
| <input type="checkbox"/> | DiffServ | 4 | 0-63 |
| <input type="checkbox"/> | First Codec Type | G.711A | |
| <input type="checkbox"/> | Second Codec Type | Not Use | |
| <input type="checkbox"/> | Third Codec Type | Not Use | |
| <input type="checkbox"/> | Fourth Codec Type | Not Use | |
| <input type="checkbox"/> | GateKeeper USED | OFF | |

Figure 1.5.13.2-1 H.323 Call Setup Attributes

When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes including the H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

This **H.323 Call Setup Attributes** also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Router or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

Refer to the following Table for a description of the features and the input required.

Table 1.5.13.2-1 H.323 Call Setup Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------|--|--|---------|
| H. 323 Setup Mode | H. 323 IP calls can be set-up using the H. 323 normal or Fast Start mode. | 1: Normal 1: Fast | FAST |
| H. 323 Tunneling Mode | H. 323 IP calls can be set-up using the H. 245 encapsulation (Tunneling). | 0: OFF 1: ON | ON |
| H. 323 DTMF Path | During a connection, DTMF digits can be sent in-band or out of band (H. 245). | 0: Inband 1: RFC2833 2: out | Inband |
| DiffServ | Diffserv pre-tagging for Voice packet. NOTE High values may cause high packet discard levels. | 0-63 | 4 |
| First Codec Type | Determines First Codec Type. | Not Use G.711U G.711A G.729 G.723A | G.711A |
| Second Codec Type | Determines Second Codec Type. | Not Use G.711U G.711A G.729 G.723A | Not Use |
| Third Codec Type | Determines Third Codec Type. | Not Use G.711U G.711A G.729 G.723A | Not Use |
| Fourth Codec Type | Determines Fourth Codec Type. | Not Use G.711U G.711A G.729 G.723A | Not Use |
| GateKeeper USED | Used to determine if Gatekeeper will be used. | 0: OFF 1: ON | OFF |

1.5.13.3 H.323 Incoming Attributes – PGM Code 362

Selecting H.323 Incoming Attributes will display the page shown, Figure 1.5.13.3-1.

| Check All | Index | Attribute | Value | Range |
|--------------------------|-------|--------------------------|----------------|-------|
| <input type="checkbox"/> | 0 | From IP Address | UNKNOWN | |
| | | Incoming CO Group Number | | 1~72 |
| <input type="checkbox"/> | 1 | From IP Address | 192.168.123.35 | |
| | | Incoming CO Group Number | 5 | 1~72 |
| | | Firewall IP Address | 0.0.0.0 | |
| | | Check Message Option | ON | |
| | | Channel State Info | Unblocking | |
| <input type="checkbox"/> | 2 | From IP Address | 192.168.123.36 | |
| | | Incoming CO Group Number | 5 | 1~72 |
| | | Firewall IP Address | 0.0.0.0 | |
| | | Check Message Option | ON | |
| | | Channel State Info | Unblocking | |
| <input type="checkbox"/> | 3 | From IP Address | 0.0.0.0 | |
| | | Incoming CO Group Number | | 1~72 |
| | | Firewall IP Address | 0.0.0.0 | |
| | | Check Message Option | OFF | |
| | | Channel State Info | Unblocking | |
| | | From IP Address | 0.0.0.0 | |
| | | Incoming CO Group Number | | 1~72 |

Figure 1.5.13.3-1 H.323 Incoming Attribute

To obtain direct H.323, the 'From IP-Address' and the 'CO Group number' to be routed should be assigned.

Table 1.5.13.3-1 H.323 VOIB Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|--|-----------------|------------|
| From IP Address | IP address associated with the H. 323 incoming call. The index 0 is used when external call comes from unknown IP Address which is not listed in this table entry. | | 0. 0. 0. 0 |
| Incoming CO Group Number | CO group number associated with the H. 323 incoming call. | 01-72 | |
| FW IP Address | Destination fire wall IP address associated with the FROM IP address. | | 0.0.0.0 |
| Check Message Option | Determines if FROM IP will be used check message. | 0: OFF 1: ON | OFF |

1.5.13.4 GateKeeper Attributes – PGM Code 363

Selecting GK Attributes will display the page shown, Figure 1.5.13.4-1.

| Attribute | Value | Range |
|---------------------------------|---------|----------------|
| GateKeeper | OFF | |
| RAS Light RRQ Usage | OFF | |
| Multicast GateKeeper IP Address | 0.0.0.0 | |
| Multicast GateKeeper Port | 0 | 0000-9999 |
| Unicast GateKeeper IP Address | 0.0.0.0 | |
| Unicast GateKeeper Port | 1719 | 0000-9999 |
| Keep Alive Time | 120 | 1-1000 |
| Gateway Prefix | | Max 25 Digits |
| H.323 Gateway ID | | Max 129 Digits |

Figure 1.5.13.4-1 GateKeeper Attributes

Table 1.5.13.4-1 Gatekeeper Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------------|---|-----------------------|---------|
| GateKeeper | Determine whether MPB will be used as a GateKeeper. | 0: OFF 1: ON | OFF |
| RAS Light RRQ Usage | The system can be assigned to use the simple Registration Request (RRQ) message (ON) or the full RRQ message (OFF). | 0: OFF 1: ON | OFF |
| Multicast GateKeeper IP Address | Multi-cast IP address for RAS Information of Gatekeeper. | IP Address | 0.0.0.0 |
| Multicast GateKeeper Port | Multi-cast IP Port for RAS Information of Gatekeeper. | IP Port # (0-9999) | 0 |
| Unicast GateKeeper IP Address | Uni-cast IP address for RAS Information of Gatekeeper. | IP Address | 0.0.0.0 |
| Unicast GateKeeper Port | Uni-cast IP Port for RAS Information of Gatekeeper. | IP Port # (0-9999) | 1719 |
| Keep Alive Time | The system will send a polling message every KEEP ALIVE TIME seconds to assure the status of the connection. | 1-1000 | 120 |
| Gateway Prefix | The numbering plan for Calling Number in RAS Setup. | Max. 25 Digits | |
| H. 323 Gateway ID | The GateKeeper ID; In keyset admin, only 24 digits can be checked or programmed. | Max. 129 Digits | |

1.5.13.5 H.323 Check Message Information – PGM Code 364

Selecting H.323 Check Message Information will display the page shown, Figure 2.3.13.5-1.

| Attribute | Value | Range |
|---------------------|-------|---------|
| Retry Count | 1 | 1-10 |
| Session Check Timer | 30 | 30-3600 |

Figure 1.5.13.5-1 H.323 Check Message Information

To get the direct H.323, the From IP-Address and 'the incoming CO Group number' to be routed should be assigned.

Table 1.5.13.5-1 H.323 Check Message Information

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------|--|-----------|---------|
| Retry Count | Determines the retry count; following MG sending the ping and reply message is not received in return. | 01-10 | 03 |
| Session Check Timer | This field indicates the time interval to send ping message periodically. | 0030-3600 | 0030 |

1.5.14 SIP CO Data

Selecting the SIP CO Data program group returns the sub-menu displayed in Figure 1.5.14-1.



Figure 1.5.14-1 SIP Data Main Page

1.5.14.1 SIP CO Basic Registration

Selecting SIP CO Basic Registration will display the page shown, Figure 1.5.14.1-1.

The screenshot shows the iPECS Web Administration interface. The sidebar on the left contains a 'Hide Menu' button and a list of configuration categories: Pre-Programmed Data, Numbering Plan, Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data (highlighted), SIP CO Basic Registration[N] (selected), SIP CO Additional Registration[N], SIP CO Codec[N], SIP CO User ID Table[N], SIP Station Data, Zone Data, and SNMP Data. The main content area is titled '[SIP CO Basic Registration Attributes]'. It features a form for 'Enter CO Group Range (1~72):' with input fields and 'Load' and 'Overview' buttons, and a 'Save' button. Below this is a section for 'CO Group Range from 2 to 2' containing a table with the following data:

| Check All | Attribute | Value | Range |
|--------------------------|--------------------|---------------|-----------|
| <input type="checkbox"/> | Main Proxy Address | 61.41.106.116 | |
| <input type="checkbox"/> | Main Proxy Port | 5060 | 1024-9999 |
| <input type="checkbox"/> | Main Domain Name | 61.41.106.116 | |
| <input type="checkbox"/> | Proxy Type | Normal | |

Figure 1.5.14.1-1 SIP CO Basic Registration

Table 1.5.14.1-1 SIP CO Basic Registration Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|---------------------|---------|
| Main Proxy Address | SIP proxy is the element that routes SIP requests to User Agent servers and SIP responses to User Agent clients. | | |
| Main Proxy Port | Main Proxy Port number to communicate with Main Proxy server. | 1024 – 9999 | 5060 |
| Main Domain Name | SIP user domain name; when a user makes a SIP outgoing call, this domain name is added to the dialed digits. (ex., <dialed digit> @domain.name.com). Proxy Domain Name; if proxy does not have a domain name, then set the proxy IP address. | | |
| Proxy Type | SIP Proxy Type that is used in SIP CO calling. | Normal / Dacom / KT | Normal |

1.5.14.2 SIP CO Additional Registration

Selecting SIP CO Additional Registration will display the page shown, Figure 1.5.14.2-1.

The screenshot shows the 'SIP CO Additional Registration Attributes' page in the iPECS web interface. The left sidebar contains a menu with options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', 'Voice Network', 'T-Net Data', 'H.323 Data', 'SIP CO Data', 'SIP Station Data', 'Zone Data', and 'SNMP Data'. The 'SIP CO Data' section is expanded, showing sub-options like 'SIP CO Basic Registration(370)[N]', 'SIP CO Additional Regist.(371)[N]', 'SIP CO Codec(372)[N]', 'SIP CO User ID Table(373)[N]', and 'SIP CO Allowed Address(374)[N]'. The main content area is titled '[SIP CO Additional Registration Attributes]' and shows a table of attributes for CO Group Range from 3 to 3. The table has columns for 'Attribute', 'Value', and 'Range'. Each row has a checkbox in the 'Attribute' column. The attributes and their values are: User ID Start Index (empty), User ID End Index (empty), Main Outbound Proxy Address (empty), Main Outbound Proxy Port (5060), Sub Proxy Address (empty), Sub Proxy Port (5060), Sub Domain Name (empty), Sub Outbound Proxy Address (empty), Sub Outbound Proxy Port (5060), Connection Mode (UDP), Registration Timer (3600), 100rel Support (OFF), Session Timer Support (OFF), Max Session Timer (1800), Min Session Timer (90), Use 181 Message (OFF), Use RPORT (OFF), P-Asserted-Identity (NOT USE), DTMF Send Mode (RFC2833), SRTP Usage (OFF), Connect RTP when Receive REINVITE (No Reconnect), Privacy (OFF), and Name (ON). The 'Range' column shows the range for each attribute: 1-72, 1-72, 1024-9999, 1024-9999, 1024-9999, 60-86400, 180-3600, 60-150, and others.

Figure 1.5.14.2-1 SIP CO Additional Registration

Table 1.5.14.2-1 SIP CO Additional Registration Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|---|--|---------|
| User ID Start Index | Sets the Start User ID Index for SIP CO group In 'SIP CO Basic Registration Attributes' | 01-72, None(MG-300) 01-24, None(MG-100) | |
| User ID End Index | Sets the End User ID Index for SIP CO group In 'SIP CO Basic Registration Attributes' | 01-72, None(MG-300) 01-24, None(MG-100) | |
| Main Outbound Proxy Address | If the Proxy Server has both a registration server and call processing server, this field indicates the call processing server address. | | |
| Main Outbound Proxy Port | Main outbound proxy port number to receive SIP messages. | 1024-9999 | 5060 |
| Sub Proxy Address | Second Proxy IP Address. Generally, used to register with the IMS Server. | | |
| Sub Proxy Port | Second Proxy Port number | 1024-9999 | 5060 |
| Sub Domain Name | Second Domain name | | |
| Sub Outbound Proxy Address | Second Outbound proxy Outbound Address | | |
| Sub Outbound Proxy Port | Second Outbound proxy port number. | 1024-9999 | 5060 |
| Connection Mode | Transport protocol type to send/receive SIP messages. | UDP / TCP / TLS | UDP |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|--|---------------------------|-----------------|
| Registration Timer | Registration Time Interval to resend the Registration message to proxy. | 60-86400 | 3600 |
| 100rel Support | Increases reliability; if both systems set 100rel to ON, then system will send the PRACK message when receiving the 18x message. | ON/OFF | OFF |
| Session Timer Support | Used to recover the communication path. | ON/OFF | OFF |
| Max. Session Timer | The time at which an element will consider the call timed out, if no successful INVITE transaction or UPDATE transaction occurs beforehand. This value is inserted into every INVITE and UPDATE transaction in the Session-Expires header unless it was configured to zero. A zero session Expires means that the Session Timer feature is turned off. If the "timer" option tag is not part of the supported list, the session Expires value will be ignored. | 180-3600 | 1800 |
| Min. Session Timer | The minimum value for the session interval that the application is willing to accept. If the application does not set this parameter, the Min SE value is set to the default value of 90 seconds according to the Session Timer RFC. Also, the Min-SE header will not be present in the sent requests (except for a request, following a 422 response). However, if the application sets this parameter to 90 or any other value, the Min-SE header will appear in any sent request Time interval to send check message (Re-Invite or UPDATE) by period. | 60-150 | 90 |
| Use 181 Message | If this feature is set to ON, 181 message is supported (call is being forwarded to a different set of destinations). | ON/OFF | OFF |
| Use RPORT | If this feature is set to ON, R-port is supported, which is used for NAT traversal problems. | ON/OFF | OFF |
| P-Asserted-Identity | his field uses private extensions to the SIP that enable a network of trusted SIP servers to assert the identify of authenticated users, and the application of existing privacy mechanisms to the identify problem. The use of these extensions is only applicable inside an administrative domain with previously agreed-upon policies for generation, transport and usage of such information. If this feature is set to ON, Asserted-ID service is supported. | NOT USE / USE | NOT USE |
| DTMF Send Mode | Used to set the DTMF mode of SIP CO group. | IN / OUT / RFC2833 | RFC2833 |
| SRTP Usage | If this feature is set to ON, SRTP is supported. | ON/OFF | OFF |
| Connect RTP when Receive REINVITE | If Reconnect is set, reconnect RTP by received SDP information. | No Reconnect/Reconnect | No Reconnect |
| Privacy | If this feature is set to ON, privacy feature is supported. | ON/OFF | OFF |
| Name | If this feature is set to ON, name service is supported. | ON/OFF | ON |

1.5.14.3 SIP CO Codec

Selecting SIP CO Codec will display the page shown, Figure 1.5.14.3-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a menu with 'SIP CO Codec[N]' selected. The main area displays the 'SIP CO Codec Attributes' configuration page. At the top, there is a header bar with 'Administration', 'S/W Upgrade', and 'System Management' tabs, and a 'Log Out' button. Below the header, there is a 'Find Page' search bar and a 'Hide Menu' button. The main content area is titled '[SIP CO Codec Attributes]'. It includes a form for 'Enter CO Group Range (1~72):' with a 'Load' button and an 'Overview' button. Below this, it says 'CO Group Range from 2 to 2'. There is a 'Check All' button and a table with the following attributes and values:

| Attribute | Value |
|-------------------|---------|
| First Codec Type | G.711A |
| Second Codec Type | Not Use |
| Third Codec Type | Not Use |
| Fourth Codec Type | Not Use |

Figure 1.5.14.3-1 SIP CO Codec

Table 1.5.14.3-1 SIP CO Codec Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|--|---------|
| First Codec Type | Codec Types to send voice packets using RTP. | Not use, G.711U, G.711A, G.729, G.723, G.729A | G.711A |
| Second Codec Type | | | Not Use |
| Third Codec Type | | | Not Use |
| Fourth Codec Type | | | Not Use |
| Fifth Code Type | | | Not Use |

1.5.14.4 SIP CO User ID Table

Selecting SIP CO User ID Table will display the page shown, Figure 1.5.14.4-1.

Figure 1.5.14.4-1 SIP User ID Table

Table 1.5.14.4-1 SIP User-ID Table Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------------|---|--------------|---------|
| Registration User ID | This Admin is used to setting SIP user ID. Set SIP user ID which is used "From" Header except domain name. | | |
| Authentication User ID | This Admin is used to setting SIP Authentication User ID. Set authentication user ID if authentication is used.. | | |
| Authentication User Password | This Admin is used for setting SIP Authentication User Password; set authentication user password if authentication is used. | | |
| Registration | This Admin is used for setting User ID Registration; determines registration of the SIP UID. | YES / NO | NO |
| Usage | When value is set to ON, determines the use of the SIP User ID. | YES / NO | NO |
| Contact Num (PGM 170-11,12) | This Admin is used for setting the Contact Number; STA use station CLI rules and User ID set Representative ID to SIP User ID automatically(this will be make Contact Number to User ID). | STA, User ID | User ID |
| Firewall Routing | This ADMIN program determines that this table is local network or different network. | YES / NO | YES |
| Contact | If not use 'Contact', all is same with previous methods of making CONTACT field. If have some value, this value always used for CONTACT field not considering STA or CO Group selection. | | |

1.5.14.5 SIP CO Allowed Address

Selecting SIP CO Allowed Address will display the page shown, Figure 1.5.14.5-1.

The screenshot shows the iPECS web administration interface. The sidebar menu on the left includes options like 'Pre-Programmed Data', 'Numbering Plan', 'Station Port Data', 'Station Number Data', 'CO Line Data', 'Station Group Data', 'System Data', 'Table Data', 'Tenant Data', 'Board Data', 'Voice Network', 'T-Net Data', 'H.323 Data', 'SIP CO Data' (highlighted), 'SIP Station Data', 'Zone Data', and 'SNMP Data'. Under 'SIP CO Data', 'SIP CO Allowed Address(374)[N]' is selected. The main content area displays the 'SIP CO Allowed Address Table' with 10 rows, each containing an 'Index' and a 'SIP Server Address' input field. A 'Save' button is located in the top right corner of the table area.

Figure 1.5.14.5-1 SIP CO Allowed Address

Table 1.5.14.5-1 SIP CO Allowed Address

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|-------|---------|
| SIP Server Address | If SIP CO Use 1 st Domain for Default set to OFF, only this address can be assigned 1 st domain for incoming SIP CO line calls. | | |

1.5.15 SIP Station Data

Selecting the SIP Station Data program group returns the sub-menu displayed in Figure 1.5.15-1.



Figure 1.5.15-1 SIP Station Data Main Page

NOTE

SIP phone need lock key install except LIP-8002 and ACT-50.

1.5.15.1 SIP Station Basic Registration

Selecting SIP CO Basic Registration will display the page shown, Figure 1.5.15.1-1.

| Index | Station Number | User ID (Max 32) | Authentication ID (Max 64) |
|-------|----------------|------------------|----------------------------|
| 1 | 138 | 1038 | |
| 2 | 139 | 1039 | |
| 3 | 140 | 1040 | |
| 4 | 141 | 1041 | |
| 5 | 142 | 1042 | |
| 6 | 143 | | |
| 7 | 144 | | |
| 8 | 145 | | |
| 9 | 146 | | |
| 10 | 147 | | |
| 11 | 148 | | |
| 12 | 149 | | |
| 13 | 150 | | |
| 14 | 151 | | |
| 15 | 152 | | |
| 16 | 153 | | |
| 17 | 154 | | |
| 18 | 155 | | |
| 19 | 156 | | |
| 20 | 157 | | |

Figure 1.5.15.1-1 SIP STA Basic Registration

Table 1.5.15.1-1 SIP STA Basic Registration Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------|--|-------|---------|
| User ID | SIP Ext. User ID. If MG explicitly assigned the user id for that SIP Ext. , then User ID will be SIP Ext. 's Station number. | | |
| Authentication ID | Authentication name assigned in SIP Proxy when required for registration. | | |
| Password | User password as assigned in SIP Proxy when required for registration. | | |

1.5.15.2 SIP Station Additional Registration

Selecting SIP STA Additional Registration will display the page shown, Figure 1.5.15.2-1.

Figure 1.5.15.2-1 SIP STA Additional Registration

Table 1.5.15.2-1 SIP STA Additional Registration Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------|---|------------------------------|----------------|
| Station Number | SIP Ext. Station number that assigned by iPECS-MG | | |
| Registering Mode | Determines if the SIP Proxy will be registered using Register message or Not. If set to No, then administrator should set SIP Ext. IP address and Port number values by hand. | Manual / User Register | Manual |
| Registration Status | Determines the SIP Ext. Registration status. | Not Registered / Registered | Not Registered |
| IP Address | Determines the SIP Ext. IP Address. | | |
| IP Port | Determines the SIP Ext. Port number. | | 0 |
| Device NAT Usage | Determines if the SIP Ext. is used within the NAT Router. | NO NAT / NAT | No NAT |
| Transfer Mode | Determines the transport protocol to send/receive SIP messages. | UDP / TCP / TLS | UDP |
| SIP Phone Type | Used to Set the SIP Ext. type | Normal / MOIMSTONE / IP-1535 | Normal |
| Registration Timer | Registration Time Interval to resend the Registration message from SIP Ext. to iPECS-MG | | 3600 |
| Keep Alive Usage | This field will be used to check SIP Ext. 's Status. If this field set to ON, OPTION message periodically send to SIP Ext to check the station's status. | ON/OFF | OFF |

1.5.15.3 SIP Station Service

Selecting SIP STATION Attributes will display the page shown, Figure 1.5.15.3-1.

| Attribute | Value | Range |
|--------------------------|-----------|----------|
| Check Message Send Timer | 30 *1sec | 10-3600 |
| Retry Count | 5 | 3-10 |
| 407 Authentication | OFF | |
| 100rel Support | OFF | |
| Session Timer Support | OFF | |
| Max Session Timer | 180 *1sec | 180-3600 |
| Min Session Timer | 60 *1sec | 60-150 |

Figure 1.5.15.3-1 SIP Station Attribute

Table 1.5.15.3-1 SIP Station Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|--|----------|---------|
| Check Message Send Timer | The system can check the SIP extension status using OPTION Message. This field indicates the time interval to send OPTION message periodically. | 10-3600 | 30 |
| Retry Count | Determines the retry count to send the OPTION message when ACK message is not received in return. | 3-10 | 5 |
| 407 Authentication | Determines if MG authentication is done for each call using 407 messages. | ON/OFF | OFF |
| 100rel Support | PRACK Sending Option | ON/OFF | OFF |
| Session Timer Support | Periodical Communication Path recovery Option | ON/OFF | OFF |
| Max. Session Timer | Maximum time to maintain the communication path | 180-3600 | 1800 |
| Min. Session Timer | Time interval to send the check message(Re-Invite or UPDATE) by period | 60-150 | 90 |

1.5.16 Zone Data

Selecting the Zone Data program group returns the sub-menu displayed, Figure 1.5.16-1.

The screenshot shows the iPECS web administration interface. The left sidebar contains a list of data categories: Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP CO Data, SIP Station Data, **Zone Data**, Zone Attribute(395)[N], Zone RTP Relay Group(396)[N], Inter Zone Attribute(397)[N], Station Zone Attribute(399)[N], SNMP Data, DECT Data, Green Mode, and Initialization. The 'Zone Data' category is selected, and the 'Zone Attribute(395)[N]' sub-menu is active.

The main content area is titled '[Zone Attribute]'. It includes a form for entering the zone range (1~9) and buttons for Load, Overview, and Save. Below this is a table for configuring attributes for a specific zone (Zone Number Range From 1 To 1).

| Check All | Attribute | Value | Range |
|--------------------------|-------------------------|--|--------------|
| <input type="checkbox"/> | Nation Code | Italy | |
| <input type="checkbox"/> | Memo | | Max 24 Chars |
| <input type="checkbox"/> | Codec Type | Tenant Group Codec Type[PGM 281] | |
| <input type="checkbox"/> | RTP Relay Rule | Follow Relay Group | |
| <input type="checkbox"/> | VOIB Slot for RTP Relay | 1: 5 2: 3 3: 4 4: 5 5: 6 6: 7 7: 8 8: 9 | Max 2 Digits |
| <input type="checkbox"/> | VMIB Slot | 1: 0 2: 9 3: 4 4: 5 | Max 2 Digits |
| <input type="checkbox"/> | Peer To Peer | ENABLE | |

Figure 1.5.16-1 Zone Data

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of a MPB. Often, devices are installed in groups with common characteristics. Such devices can be grouped to a Zone to define common characteristics including Country Code, VMIB, RTP packet handling, etc. Common attributes may be defined at the device, Zone and Inter-zone level. Device settings have priority over Zone settings, while Zone settings have priority over system settings.

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel (MPB or VOIB), which is under control of the MPB, and the IP address is translated from a public one to the device's private address. The VOIB VoIP channels implement a secure channel using IPSec protocol. Devices can be assigned as part of a "RTP Relay group" to use the same VoIP channels to implement RTP packet relay.

NOTE

Packet relay requires a MPB or VOIB VoIP channel be available locally for each simultaneous call that requires packet relay. The sub menus of Zone Data define device zone assignments and zone configurations. These programs are only available in Web admin.

1.5.16.1 Zone Attributes

Selecting the Zone Attribute returns the page shown, in Figure 1.5.16.1-1. Enter the desired Zone number range and click Load to assign Zone characteristics.

Figure 1.5.16.1-1 Zone Attribute

The Zone Attributes define when and which VoIP channels to use for RTP packet relay. Local VoIP channels are assigned to perform the packet relay function and the use can be defined as “Automatic” or “Follow Relay Group”. For “Automatic”, the MP will employ the IP KTS STUN protocol to determine when packet relay is required. If assigned “Follow Relay Group”, packet relay will always be employed for RTP packet receipt.

Table 1.5.16.1-1 Zone Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------|--|---|---------------------------|
| Nation Code | Nation Code of the Zone | | Same with system's nation |
| Memo | Memo | | |
| Codec Type | The codec selection method can be defined as device based, see PGM 281, or based on the codec type assigned to the Zone. | Tenant Codec / G.711 / G.723 / G.729 / G.722 / Not Assign | Tenant Codec |
| RTP Relay Rule | Assigns when to use the packet relay function, with “Automatic” the MPB will automatically determine when to use packet relay, while “RTP Relay Group” will always implement packet relay for RTP packets. | Automatic / Follow Relay Group | Automatic |
| VOIB Slot for RTP Relay | Assigns the VOIB slot used to support RTP relay for devices in the Zone. | | VOIB Slot |
| VMIB Slot | Assigns the VMIB slot used to support Voice Mail for devices in the Zone. | | VMIB Slot |
| Peer-to-Peer | If enabled, the VOIP channel is not allocated for IP Phone-to-IP Phone voice. If disabled, the VOIP channel is allocated for IP phone-to-IP phone voice relay. | Disable/Enable | Enable |

1.5.16.2 Zone RTP Relay Group

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page, Figure 1.5.16.2-1. Enter the desired Zone and RTP Reply Group numbers and click on **[Load]** to assign Zone characteristics.

The screenshot shows the iPECS web interface. On the left is a navigation menu with categories like Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP Data, Zone Data (highlighted), Zone Attribute(395)[N], Zone RTP Relay Group(396)[N] (selected), Inter Zone Attribute(397)[N], Station Zone Attribute(399)[N], SNMP Data, DECT Data, Green Mode, and Initialization. The main content area is titled '[RTP Relay ON/OFF Between Groups In Zone]'. It contains input fields for 'Enter Zone Number (1-9):' and 'Enter RTP Relay Group Number (1-15):' with a 'Load' button. Below these, it shows 'Zone Number : 1' and 'RTP Relay Group Number : 1'. A table with columns 'Attribute' and 'Value' lists 15 relay groups, each with a checkbox. A 'Force To RTP Relay' checkbox is also present. Buttons for 'Uncheck All', 'Save', and 'Load' are visible.

Figure 1.5.16.2-1 Zone RTP Relay Group

While it is strongly recommended that a Zone only have a single RTP Relay Group, up to 15 Groups can be assigned to a Zone. Devices in an RTP Relay Group should have common requirements for packet relay use. In some situations, it may be necessary to implement packet relay to groups in a Zone.

NOTE

When “Automatic” is assigned as the RTP Relay Rule in Zone Attributes, assignments are ignored.

Table 1.5.16.2-1 Zone RTP Relay Group

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|---|-------|---------|
| Force To RTP Relay | Select RTP Group to force RTP Relay for Zone. | | |

1.5.16.3 Inter-Zone Attribute

Selecting the Inter-Zone Attribute returns the page is shown, Figure 1.5.16.3-1. Enter the desired Source and Destination Zone number range and click on **[Load]** to assign Zone characteristics.

Figure 1.5.16.3-1 Inter-Zone Attribute

Inter Zone Attributes define RTP packet relay treatment for communication between devices in different Zones.

Table 1.5.16.3-1 Inter-Zone Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|--|---|---------------|
| Codec Type | The codec selection method can be defined as device based Station Codec, or based on the codec type assigned to the Inter-Zone. | Station Codec / G.711 G.723 / G.729 | Station Codec |
| RTP Rule | Assigns when to use the packet relay function between Zones, with "If Need" the MPB will automatically determine when to use packet relay, while "Always Not" will not use and "Forced To DO" always implement packet relay. | If Need / Always Not / Forced To Do | If Need |
| Src. RTP Relay VOIB Slot | Source VOIB Slot to handle Packet relay for Source Zone. | | |
| Dest. RTP Relay VOIB Slot | Destination VOIB Slot to handle Packet relay for Source Zone. | | |

1.5.16.4 Station Zone Attribute

Selecting the Station Zone Attribute returns the page shown, Figure 1.5.16.4-1. Enter the desired station range and click on **[Load]** to assign Station Zone characteristics.

The screenshot shows the iPECS web administration interface. The left sidebar contains a tree view of data categories: Station Port Data, Station Number Data, CO Line Data, Station Group Data, System Data, Table Data, Tenant Data, Board Data, Voice Network, T-Net Data, H.323 Data, SIP Data, Zone Data (expanded), Zone Attribute(395)[N], Zone RTP Relay Group(396)[N], Inter Zone Attribute(397)[N], Station Zone Attribute(399)[N] (selected), SNMP Data, DECT Data, Green Mode, and Initialization. The main content area is titled '[Station Zone Attribute]'. It includes a form for 'Enter Station Range' with a range of 1000 to 1000, and buttons for 'Load', 'Overview', and 'Save'. Below the form is a table with the following data:

| Order | Check All | Attribute | Value |
|-------|--------------------------|-----------------|-------------|
| 1 | <input type="checkbox"/> | Zone No (1-9) | 1 |
| 2 | <input type="checkbox"/> | RTP Relay Group | Not Assign |
| 3 | <input type="checkbox"/> | Codec Type | FOLLOW ZONE |

Figure 1.5.16.4-1 Station Zone Attributes

Station Zone Attributes define characteristics specific to the Station including Zone assignment. In addition, Zone characteristics set at the Station level take precedence over characteristics for the Zone Attributes. While a Zone may incorporate up to 15 different RTP packet Relay Groups, for clarity a single RTP Relay Group should be used within a Zone.

Table 1.5.16.4-1 Station Zone Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------|---|---|-------------|
| Zone No | Zone number of station | 1-9 | 1 |
| RTP Relay Group | Assigns the RTP Relay group employed by the device | N/A, 01-15 | N/A |
| Codec Type | The codec selection method can be defined as device based Zone, or based on the codec type assigned to the Station. | Follow Zone / G.711 / G.723 / G.729 / G.722 | Follow Zone |

1.5.17 SNMP Data

Selecting the SNMP Data returns the page shown, Figure 1.5.17-1.

The screenshot shows the iPECS Web Administration interface. The left sidebar contains a menu with various configuration options, including 'SNMP Data' which is currently selected. The main content area is titled '[SNMP Attributes]' and contains three sections:

- [SNMP Agent]**: Includes a dropdown for 'SNMP Service' set to 'ON' and a text field for 'SNMP Port' set to '161'.
- [SNMP Security]**: Includes text fields for 'Read Only Community' set to 'public' and 'Read Write Community' set to 'private'.
- [SNMP Trap]**: Includes a text field for 'Trap Community' set to 'public' and a table for 'Trap Destinations'.

The 'Trap Destinations' table has four rows, each with an IP address field, a port field set to '162', and a dropdown menu set to 'Notification'.

Figure 1.5.17-1 SNMP Attributes

SNMP Attributes, as shown on the screen, are divided into three categories: SNMP Agent, SNMP Security, and SNMP Trap. The SNMP Agent field, SNMP Service enables the SNMP agent running in the iPECS call server. The SNMP port field defines the UDP port used for communications from the iPECS-MG system for SNMP messages (port should not be changed).

The SNMP Security pane includes the Read Only and Read Write SNMP Community fields (4 to 16 characters). The SNMP Community designates an SNMP communication group to which an SNMP message belongs, and is a logical relationship between the SNMP agent (iPECS-MG system) and SNMP manager (iPECS NMS). The SNMP community settings must be the same for the iPECS system and the iPECS NMS server.

- Read Only Community – Defines a community string used when the iPECS NMS reads data from the iPECS-MG system (default=Public).
- Read Write Community – Defines the community string used when iPECS NMS reads or writes data to the iPECS-MG system (default=Private).

Although the iPECS-MG system can accept packets from any SNMP manger (iPECS NMS), for improved security, the IP address of specific servers can be defined and allowed Read only or Read Write access. It is recommended that the system be assigned with the IP address of a specific NMS server with Read Write access.

The SNMP Trap configuration defines the Trap Community, and the Trap Destination, which includes the IP Address of the SNMP manager, iPECS NMS, and the message type. The Trap Community designates a communication group to which a Trap message belongs, and is a logical relationship between the SNMP agent (iPECS-MG system) and SNMP manager (iPECS NMS). This 4 to 16 character string should be the same as the Trap community string defined in the iPECS-NMS. The Trap community should be same for all the iPECS-MG systems registered to an iPECS-NMS server whereas the SNMP community may be defined with different strings for each iPECS system.

The Trap Destination defines the IP address of the iPECS NMS server and the port, 162. Enter the IP address of the NMS server; however, the port should not be changed. The pull down menu next to the address is used to define the address type:

- Trap – message type is defined in SNMPv1, but because iPECS-NMS and the iPECS-MG system SNMPv2, the Trap type message is not recommended.
- Notification – message type sent from the SNMP agent once without checking the reception of the message.
- Inform – message type requires a response of receipt from the SNMP manager. If the agent does not receive a response, the message is resent. Inform messages are intended for use in environments with high packet loss; however, use of the Inform message type may detrimentally affect iPECS system performance.

Refer to Table 1.5.17-1 for description of the SNMP Attributes and values that can be entered.

Table 1.5.17-1 SNMP Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------|---|--------------------------------|--------------|
| SNMP service | SNMP Service' field is used to set the SNMP agent in the iPECS On or Off. | ON/OFF | |
| SNMP Port | SNMP Protocol port number. | | 161 |
| Read Only Community | Read only community should be used when SNMP manager (NMS) is trying to read data from SNMP agent (MFIM). | 4 ` 16 characters | |
| Read Write Community | When the SNMP manager (NMS) needs to both read and write data to the agent (iPECS) this attribute should be enabled. | 4 ` 16 characters | |
| Trap Community | For the SNMP agent (iPECS), this field defines the destination IP address to receive trapped messages (Alarm/fault events). | 4 ` 16 characters | |
| Trap Destination | IP address of iPECS NMS server, port 162 should not be changed. | IP address | |
| Message Type | Defines how the agent sends the message. | Notification Inform Trap | Notification |

After finishing all Configuration items, click on the **[Save]** button.

1.5.18 DECT Data

Selecting the DECT Data program group returns the sub-menu displayed in Figure 1.5.18-1.

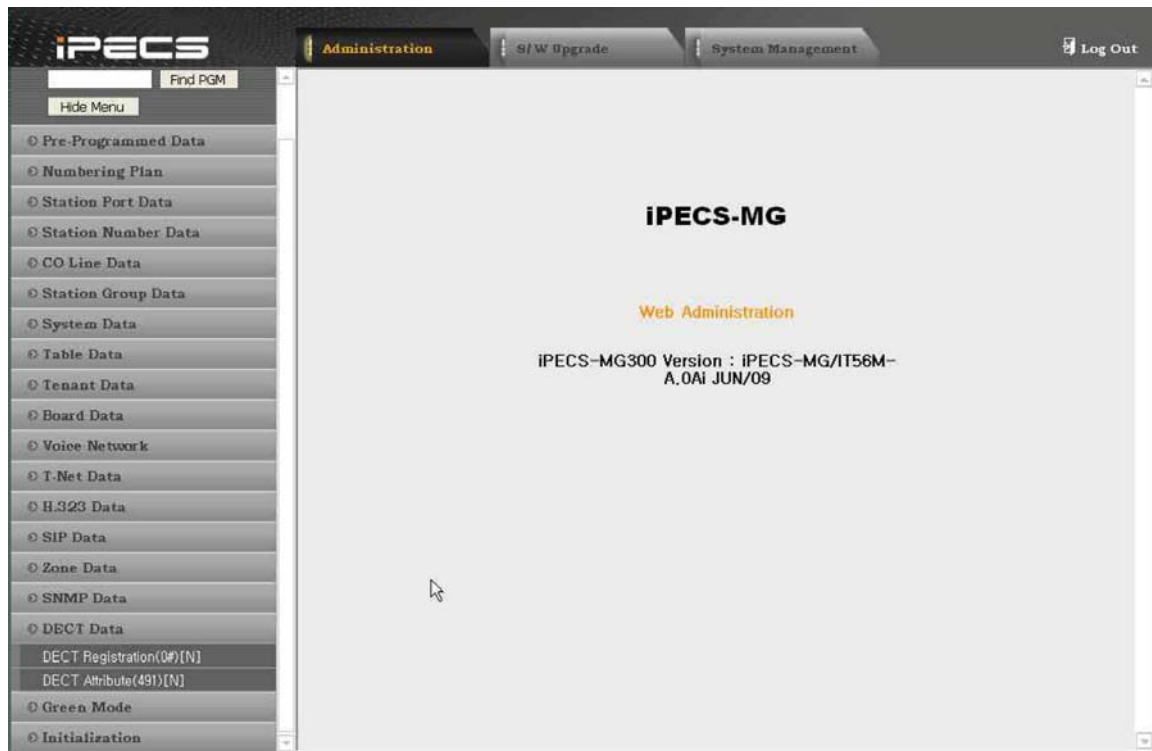


Figure 1.5.18-1 DECT Data Main Page

1.5.18.1 DECT Registration

Selecting the Registration returns the page shown, Figure 1.5.18.1-1.

| Attribute | Value | Button | Comment |
|--|------------------------|--------|---------|
| PARK Code | 3110001340310* | Save | |
| AC Code | 1234 | Save | |
| DECT Station Range | 1036 - 1043 | | |
| DECT Subscribe enable | [Dropdown] | | |
| Station No | | Send | |
| Phone Type | 3 (34x/4xx) [Dropdown] | | |
| DECT Subscribe All Data Erase Password | | Send | |

Figure 1.5.18.1-1 DECT Subscription Screen

On this page, the DECT ID and authorization codes are defined. In addition, a pull down menu selects one of four subscription events, subscribe, and unsubscribe, mobility or erase registered station.

A separate password box permits password entry to terminate (erase) all DECT subscriptions.

Table 1.5.18.1-1 DECT Registration

| ATTRIBUTE | REMARK | RANGE | DEFAULT |
|--|---|------------------------------------|---------|
| Park Code | PARK (Portable Access Rights Key) Code: Unique System ID entered at DECT handset subscription to identify the system. To assign a PARK code, enter code and click [Save] . | 14 digits | |
| AC Code | Authentication Code entered at DECT handset to verify subscription. To assign AC Code, enter AC value and click [Save] . | Up to 8 digits | |
| DECT Station Range | Display station range for DECT | | |
| DECT Subscribe Enable | Enables the system to accept a subscription from a DECT handset, Figure 1.5.18.1-1. | | |
| Station Number | Desired station number for the wireless DECT handset | | |
| Phone Type | Several types of handsets may be selected including type 3 for the GDC-400H. 1. 33X: GDX-33X 2. ST-DECT: Standard DECT 3. 34X/4XX: GDC-34X/4XX | 1: 33x 2: ST DECT 3: 34X/4XX | 3 |
| | Press [Send] after entering the number and type. | | |
| DECT Unsubscribe | Terminates the subscription for a DECT handset, Figure 1.5.18.1-2. | | |
| Station Number | Enter the registered station number and click [SEND] , the subscription is terminated and the wireless DECT handset will no longer be serviced. | Station number | |
| DECT User Authentication | Authenticate DECT handset, Figure 1.5.18.1-3. | | |
| Station Number | Enter the station number and click [Send] . | Station number | |
| DECT Mobility | When a DECT handset is registered at multiple systems that are networked, calls can be routed over the network to the DECT handset location, Figure 1.5.18.1-4. | | |
| Station No | Enter the registered station number, select Mobility ON or OFF and click [Send] . | Station number | |
| STATION Erase | Erase all information related to DECT handset. | | |
| Station No | Enter the station number, and click [Send] button. | Station number | |
| DECT Subscribe All Data Erase Password | Terminates the subscription for all DECT handsets, Figure 1.5.18.1-5. | | |
| DECT Registered Status | Displays all registered DECT handsets, Figure 1.5.18.1-6. | | |

| Attribute | Value | Button | Comment |
|--|----------------|--------|---------|
| PARK Code | 3110001340310* | Save | |
| AC Code | 1234 | Save | |
| DECT Station Range | 1036 - 1043 | | |
| DECT Unsubscribe Station No | | Send | |
| DECT Subscribe All Data Erase Password | | Send | |

Figure 1.5.18.1-2 DECT Unsubscribe Pull down

| Attribute | Value | Button | Comment |
|--|----------------|--------|---------|
| PARK Code | 3110001340310* | Save | |
| AC Code | 1234 | Save | |
| DECT Station Range | 1036 - 1043 | | |
| DECT User Authentication Station No | | Send | |
| DECT Subscribe All Data Erase Password | | Send | |

Figure 1.5.18.1-3 DECT User Authentication Pull down

iPECS Administration S/W Upgrade System Management Log Out

Hide Menu

- Pre-Programmed Data
- Numbering Plan
- Station Port Data
- Station Number Data
- CO Line Data
- Station Group Data
- System Data
- Table Data
- Tenant Data
- Board Data
- Voice Network
- T-Net Data
- H.323 Data
- SIP CO Data
- SIP Station Data
- Zone Data
- SNMP Data
- DECT Data**
 - DECT Registration(00)[N]
 - DECT Attribute(491)[N]

[DECT (Un)Subscribe]

| Attribute | Value | Button | DECT Registered Status Comment |
|--|------------------------------------|--------|-----------------------------------|
| PARK Code | 3110001340310* | Save | |
| AC Code | 1234 | Save | |
| DECT Station Range | 1036 - 1043 | | |
| DECT Mobility | <input type="text"/> | | |
| Station No | <input type="text"/> | Send | |
| DECT Mobility ON/OFF | OFF <input type="checkbox"/> write | | |
| DECT Subscribe All Data Erase Password | <input type="text"/> | Send | |

Figure 1.5.18.1-4 DECT Mobility pull down

iPECS Administration S/W Upgrade System Management Log Out

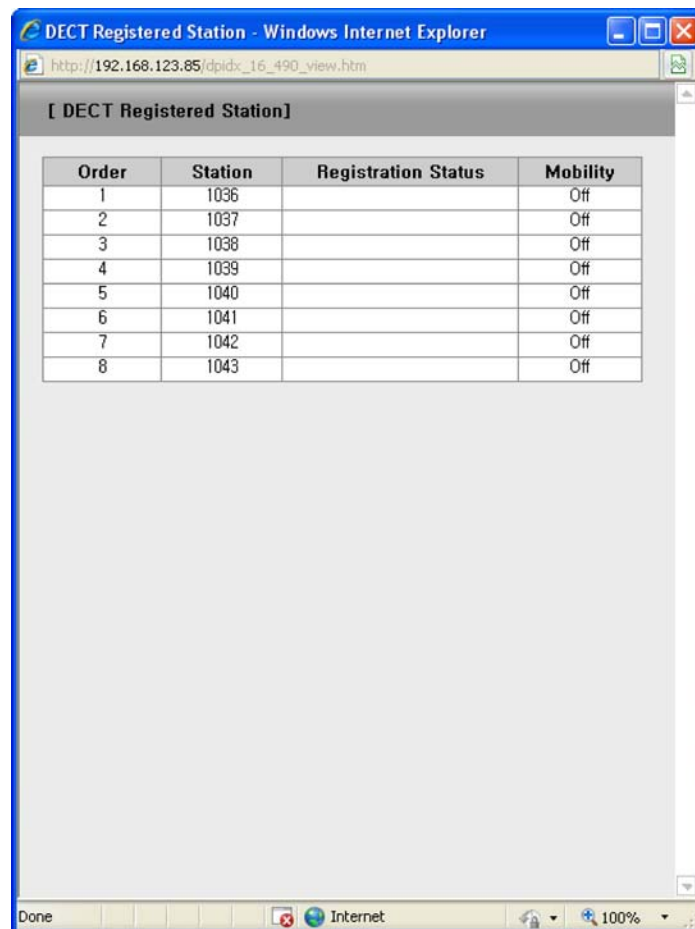
Hide Menu

- Pre-Programmed Data
- Numbering Plan
- Station Port Data
- Station Number Data
- CO Line Data
- Station Group Data
- System Data
- Table Data
- Tenant Data
- Board Data
- Voice Network
- T-Net Data
- H.323 Data
- SIP CO Data
- SIP Station Data
- Zone Data
- SNMP Data
- DECT Data**
 - DECT Registration(00)[N]
 - DECT Attribute(491)[N]

[DECT (Un)Subscribe]

| Attribute | Value | Button | DECT Registered Status Comment |
|--|----------------------|--------|-----------------------------------|
| PARK Code | 3110001340310* | Save | |
| AC Code | 1234 | Save | |
| DECT Station Range | 1036 - 1043 | | |
| STATION Erase | <input type="text"/> | | |
| Station No | <input type="text"/> | Send | |
| DECT Subscribe All Data Erase Password | <input type="text"/> | Send | |

Figure 1.5.18.1-5 Station Erase pull down



| Order | Station | Registration Status | Mobility |
|-------|---------|---------------------|----------|
| 1 | 1036 | | Off |
| 2 | 1037 | | Off |
| 3 | 1038 | | Off |
| 4 | 1039 | | Off |
| 5 | 1040 | | Off |
| 6 | 1041 | | Off |
| 7 | 1042 | | Off |
| 8 | 1043 | | Off |

Figure 1.5.18.1-6 DECT Registered Station

1.5.18.2 DECT Attributes – PGM Code 491

Selecting DECT Attributes returns the page shown, Figure 1.5.18.2-1.



Figure 1.5.18.2-1 DECT Attributes

DECT Attributes defines functions associated with DECT equipment and operation as shown in Table 1.5.18.2-1.

Table 1.5.18.2-1 DECT ATTRIBUTES

| ATTRIBUTE | REMARK | RANGE | DEFAULT |
|-------------------|---|-------------------------|---------|
| Auto Call Release | If enabled, when the other party of an active internal/external call disconnects, the GDC-400H returns to idle. | 0: OFF 1: ON | OFF |
| BASE Fault Alarm | If enabled, DECT Base station (GDC-400B/600B) alarms are sent to the Attendant. | 0: Disable 1: Enable | Disable |

1.5.19 Green Mode

Selecting the Green Mode program group returns the sub-menu displayed in Figure 1.5.19-1.



Figure 1.5.19-1 Green Mode Main Page

1.5.19.1 Green Mode Activation

Selecting Green Mode Activation returns the page shown, Figure 1.5.19.1-1.

| Slot No. | Board Type | Station Range | Power Save Mode | Current State |
|----------|------------|---------------|-----------------|---------------|
| 2 | DTIB24 | 100 - 124 | DISABLE | Power On |
| 14 | SLIB12 | 124 - 136 | DISABLE | Power On |

Figure 1.5.19.1-1 Green Mode Activation

The system can disable the power of a Digital Phone or Single Line Telephone (SLT) installed in the DTIB/SLIB/DSIU to save power during night or holiday mode. The power ON/OFF can be controlled by Web admin manually or automatically by assigning power ON/OFF time.

Table 1.5.19.1-1 Green Mode Activation Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|------------------|--|---------|
| Power Save Usage | Enables or Disables Power Save usage. | Disable |
| Slot No. | The Slot Number of board supporting power control | |
| Board Type | Board Type | |
| Station Range | Station Number Range of board supporting power control | |
| Power Save Mode | Enables or Disables Power Save Usage Mode of each board. | Disable |
| Current Status | Displays the current status of board power ON/OFF. | |
| Power ON button | Power ON manually all of stations in Power Save used board. | |
| Power OFF button | Power OFF manually all of stations in Power Save used board. | |

1.5.19.2 Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown, Figure 1.5.19.2-1.

| Attribute | Value | Range |
|-----------|----------------|-------|
| Monday | Power ON Time | 0800 |
| | Power OFF Time | |
| Tuesday | Power ON Time | |
| | Power OFF Time | |
| Wednesday | Power ON Time | |
| | Power OFF Time | |
| Thursday | Power ON Time | |
| | Power OFF Time | |
| Friday | Power ON Time | |
| | Power OFF Time | 2000 |
| Saturday | Power ON Time | |
| | Power OFF Time | |
| Sunday | Power ON Time | |
| | Power OFF Time | |

Figure 1.5.19.2-1 Green Mode Time Setting

The power ON/OFF time can be assigned to control Green Mode automatically. The power ON/OFF time can be defined at each day in a week. And when defined that time, power to assign board will be served or not.

Table 1.5.19.2-1 Green Mode Time Setting

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|----------------|---|---------|
| Power ON Time | The time to start power supply to assigned board. | |
| Power OFF Time | The time to start power supply to assigned board. | |

1.5.20 Hotel Data

Selecting the Hotel Data program group returns the sub-menu displayed in Figure 1.5.20-1.



Figure 1.5.20-1 Hotel Data Main Page

Most of general information of Hotel feature can be defined.

1.5.20.1 Hotel General Info – PGM Code 500

Selecting the Hotel General Info returns the page shown, Figure 1.5.20-1.

| Index | Attribute | Value | Range |
|-------|---|----------|-------------------|
| 1 | Hotel Name | | Max 24 Characters |
| | Hotel Address | | Max 50 Characters |
| | Hotel Tel No. | | Max 15 Characters |
| | Hotel FAX | | Max 15 Characters |
| | Hotel Homepage | | Max 30 Characters |
| 2 | PMS Usage | PMS only | |
| 3 | PMS Device 1 (Currently : Connected) | ON | |
| 4 | PMS Device 2 (Currently : Disconnected) | ON | |
| 5 | Fidelio Server IP Address | 0.0.0.0 | |
| 6 | Fidelio Server Port | | 1-65535 |
| 7 | Check-In Day COS | 1 | 0-15 |
| 8 | Check-In Night COS | 1 | 0-15 |
| 9 | Check-In Timed COS | 1 | 0-15 |
| 10 | Check-In Digit Conversion Table | 1 | 1-9 |
| 11 | Check-Out Day COS | 1 | 0-15 |
| 12 | Check-Out Night COS | 1 | 0-15 |
| 13 | Check-Out Timed COS | 1 | 0-15 |
| 14 | Check-Out Digit Conversion Table | 1 | 1-9 |
| 15 | Check-Out LCD Language | Korean | |
| 16 | Check-Out Prompt Language | 1 | 1-3 |
| 17 | Guest Info Display | ON | |
| 18 | MP Attendant Call Service | OFF | |
| 19 | MP Wake-Up Service | OFF | |
| 20 | Dial One Digit Service Timer | 0 | 0-30 (SEC) |

Figure 1.5.20-1 Hotel General Info

Table 1.5.20.1-1 Hotel General Info

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--|--|--|---------|
| Hotel Name | Hotel Name can be assigned | Max 24 Characters | |
| Hotel Address | Hotel Address can be assigned | Max 50 Characters | |
| Hotel Tel No. | Hotel Telephone number can be assigned | Max 15 Characters | |
| Hotel FAX | Hotel FAX number can be assigned | Max 15 Characters | |
| Hotel Homepage | Hotel Homepage address can be assigned | Max 30 Characters | |
| PMS Usage | Determines the hotel management system. If this field set to OFF, the system can't support interface for PMS and Fidelio. | 0: OFF 1: PMS ONLY 2: FIDELIO ONLY 3: PMS + FIDELIO | OFF |
| PMS Device 1(Currently : Disconnected) | Used to set PMS Device 1 (Display the connection status of PMS Device 1.Connected or Disconnected) | 0: OFF 1: ON | OFF |
| PMS Device 2(Currently : Disconnected) | Used to set PMS Device 2 (Display the connection status of PMS Device 2.Connected or Disconnected) | 0: OFF 1: ON | OFF |
| Fidelio Server Address | IP address of Fidelio Server | | 0.0.0.0 |
| Fidelio Server Port | Port address of Fidelio Server | 1-65535 | |
| Check-In Day COS | Determines COS in Day mode about check-in room number | 00-15 | 1 |
| Check-In Night COS | Determines COS in Night mode about check-in room number | 00-15 | 1 |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|----------------------------------|---|--|---------|
| Check-In Timed COS | Determines COS in Timed mode about check-in room number | 00-15 | 1 |
| Check-In Digit Conversion Table | Determines Conversion Table Index about check-in room number | MG100 system: 1-5 MG300 system: 1-9 | 1 |
| Check-Out Day COS | Determines COS in Day mode about check-out room number | 00-15 | 1 |
| Check-Out Night COS | Determines COS in Night mode about check-out room number | 00-15 | 1 |
| Check-Out Timed COS | Determines COS in Timed mode about check-out room number | 00-15 | 1 |
| Check-Out Digit Conversion Table | Determines Digit Conversion Table Index about check-out room number | MG100 system: 1-5 MG300 system: 1-9 | 1 |
| Check-Out LCD Language | Sets the Language used in the Station's LCD, refer to Table 1.5.20-1 below. | | English |
| Check-Out Prompt Language | Selected language type prompt is played to the user when accessing the VMIB. | 1-3 | 1 |
| Guest Info Display | If enabled, it allows users to view information about guests from font desk while talking with guests over the phone. | 0: OFF 1: ON | OFF |
| VIP Attendant Call Service | If enabled, It allows an operator to answer the calls from VIP guests earlier when VIP guests call an attendant. | 0: OFF 1: ON | OFF |
| VIP Wake-up Service | If enabled, it allows an attendant to be informed of VIP guest's wake-up call and provide wake-up call service. | 0: OFF 1: ON | OFF |
| Dial One Digit Service Timer | When PGM Code 508 is set up, one digit service is carried out when the timer is expired. | 0-30 (Seconds) | 0 |
| FIAS SMDR C Type | If enabled, FIAS SMDR message will include Total Amount (TA) field for direct charge. Otherwise, it will be 'MP' meaning metering count. | 0:OFF 1:ON | ON |
| FIAS Minibar C Type | If enabled, FIAS Minibar message will include Total Amount (TA) field for direct charge. Otherwise, it will be 'M#' meaning number of item. | 0:OFF 1:ON | ON |
| Check-In Intercom Enable | If enabled, PGM502-F3 "Intercom Enable" is set to 'ON' when a guest room is checked in. | 0:OFF 1:ON | OFF |
| Check-In Cut-Off | If enabled, PGM502-F6 "Cut Off" is set to 'ON' when a guest room is checked in. | 0:OFF 1:ON | OFF |
| Check-Out Intercom Enable | If enabled, PGM502-F6 "Cut Off" is set to 'ON' when a guest room is checked out. | 0:OFF 1:ON | OFF |

Table 1.5.20.1-2 LCD Language Selection

| ENTRY | LANGUAGE |
|-------|------------|
| 00 | English |
| 01 | Italian |
| 02 | Finnish |
| 03 | Dutch |
| 04 | Swedish |
| 05 | Danish |
| 06 | Norwegian |
| 07 | Hebrew |
| 08 | German |
| 09 | French |
| 10 | Portuguese |
| 11 | Spanish |
| 12 | Korean |
| 13 | Estonian |
| 14 | Russian |
| 15 | Turkish |
| 16 | Polish |
| 17 | Greek |

1.5.20.2 Hotel Additional Info – PGM Code 501

| Index | Attribute | Value | Range |
|-------|-------------------------------------|-------|------------------|
| 1 | Call from Office To Guest Room | OFF | |
| 2 | Call from Office To Service Station | OFF | |
| 3 | Call from Office To Front-Desk | OFF | |
| 4 | Call from Guest Room To Office | OFF | |
| 5 | Call from Service Station To Office | OFF | |
| 6 | Call from Front-Desk To Office | OFF | |
| 7 | Base Time in Room Rate | 0 | 00-23 |
| 8 | Check In/Out On-line Print | OFF | |
| 9 | Echo Mode | OFF | |
| 10 | Toll Charge To Room | OFF | |
| 11 | Method Of Payment | 0 | Max 7 Characters |
| | | 1 | Max 7 Characters |
| | | 2 | Max 7 Characters |
| | | 3 | Max 7 Characters |
| | | 4 | Max 7 Characters |
| | | 5 | Max 7 Characters |
| | | 6 | Max 7 Characters |
| | | 7 | Max 7 Characters |
| | | 8 | Max 7 Characters |
| | | 9 | Max 7 Characters |

Figure 1.5.20.2-1 Hotel Additional Info

Table 1.5.20.2-1 Hotel Additional Info

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------------|--|-----------------|---------|
| Call from Office To Guest Room | This option enables calls to Guest room from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Guest rooms. | 0: OFF 1: ON | OFF |
| Call from Office To Service Station | This option enables calls to Service station from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Service stations. | 0: OFF 1: ON | OFF |
| Call from Office To Front-Desk | This option enables calls to Front-Desk from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Front-Desks. | 0: OFF 1: ON | OFF |
| Call from Guest Room To Office | This option enables calls to Office station from Guest rooms. If this is set to 'OFF', Guest rooms are not able to make a call to Office stations. | 0: OFF 1: ON | OFF |
| Call from Service Station To Office | This option enables calls to Office station from Service stations. If this is set to 'OFF', Service stations are not able to make a call to Office stations. | 0: OFF 1: ON | OFF |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------------|---|---------------------|---------|
| Call from Front-Desk To Office | This option enables calls to Office station from Front-Desks. If this is set to 'OFF', Front-Desks are not able to make a call to Office stations. | 0: OFF 1: ON | OFF |
| Base Time in Room Rate | This value is used to decide the staying days when a Guest room is checked out. Example) If Base Time is 10 o'clock, then the total staying days are 3 days in the following case. Check-In time: March 1, 10 AM Check-Out time: March 2, 12 AM That is, check-in before Base time and check-out after Base time is considered as one extra day. | 00-23 (o'clock) | 00 |
| Check-In/Out On-line Print | If this option is set to 'OFF', Check-In/Out information is not printed out when a guest is checked in or checked out. This option also controls the print-out of Room charge and Room status which are Front-Desk station menu. | 0: OFF 1: ON | OFF |
| Echo Mode | If this is set to 'ON', a room charge data is displayed in Echo mode when a front-desk makes it printed out in simple mode. | 0: OFF 1: ON | OFF |
| Toll Charge To Room | If this option is set to 'ON', calls transferred to a guest room from a service station are charged to the guest room. | 0: OFF 1: ON | OFF |
| Method Of Payment (BIN NO 0~9) | You can program a string for Method of Payment which is printed when guests are checked out. Total 10 different strings can be programmed. | Max 7 characters | Empty |
| Call drop when empty prepaid | If enabled, PGM502-F6 "Cut Off" is set to 'ON' when a guest room is checked out. | 0:OFF 1:ON | OFF |

1.5.20.3 Hotel Station Attribute – PGM Code 502

| Index | Uncheck All | Attribute | Value | Range |
|-------|-------------------------------------|----------------------------|---------------|---------------------------|
| 1 | <input checked="" type="checkbox"/> | Hotel Service Type | Guest Room | |
| 2 | <input type="checkbox"/> | Check-In Status | CHECK-OUT | |
| 3 | <input checked="" type="checkbox"/> | Intercom Enable | OFF | |
| 4 | <input checked="" type="checkbox"/> | Guest Type | NON VIP | |
| 5 | <input checked="" type="checkbox"/> | Room Status | TO BE CLEANED | |
| 6 | <input checked="" type="checkbox"/> | Cut-Off | ON | |
| 7 | <input checked="" type="checkbox"/> | PMS Group ID | 0 | 0-10000 |
| 8 | <input checked="" type="checkbox"/> | Check-Out Date/Time | | mm/dd/yyyy Hour(00-23) |
| 9 | <input checked="" type="checkbox"/> | Bath Alarm | OFF | |
| 10 | <input checked="" type="checkbox"/> | Room Monitor | OFF | |
| 11 | <input checked="" type="checkbox"/> | Room Class [PGM 503] | 1 | 1-20 |
| 12 | <input checked="" type="checkbox"/> | Call Charge Rate [PGM 504] | | 1-6 |

Figure 1.5.20.3-1 Hotel Station Attribute

Table 1.5.20.3-1 Hotel Station Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------|--|---|---------|
| Hotel Service Type | Select the hotel station type of a DN for your purpose. If this hotel station type is changed, the name of DN will be set to the default. | 0: OFFICE 1: GUEST 2: SVC STA 3: FRONT | OFFICE |
| Check-In Status | This field only shows the current check-in status of a Guest room. This is not allowed to be changed in this PGM menu. | Read Only | |
| Intercom Enable | If this field is ON, guest rooms can make an internal call to other rooms. If this field is OFF, only guest rooms with the same PMS group ID can call each other. | 0:OFF 1:ON | OFF |
| Guest Type | If a guest room is VIP, it is able to use privileged VIP feature. | 0: NON VIP 1: VIP | NON VIP |

Table 1.5.20.3-1 Hotel Station Attribute

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------|---|-----------------|---------------|
| Room Status | You can configure the maid status of a guest room to one of the followings. 1: TO BE CLEANED 2: UNDER CLEANING 3: READY FOR SALE 4: OUT OF SERVICE 5: UNDER REPAIR 6: REPAIR COMPLETE 7: ROOM OCCUPIED | 1-7 | TO BE CLEANED |
| Cut-Off | If this field is set to 'ON', a guest room is not allowed to make an outgoing call. | 0: OFF 1: ON | OFF |
| PMS Group ID | Even though Intercom call is disabled, guest rooms can call each other if they have the same PMS group ID. | 0-10000 | 0 |
| Check-Out Date/Time | This field means the check-out schedule of a guest room. | | |
| Bath Alarm | With this option, Bath Alarm function is enabled. | 0: OFF 1: ON | OFF |
| Room Monitor | If this option is set to 'ON' for a guest room, the room can be monitored by another station when it is checked-in. | 0: OFF 1: ON | OFF |
| Room Class | Room class can be assigned to each room. Room class is used to calculate room charge based on the rate of room class. This Room Class index is linked with Rate for Room Class Admin PGM503 | 1-20 | 1 |
| Call Charge Rate | Call charge rate bin number can be assigned to each room. This Call Charge Rate index is linked with Rate for Call Charge Rate Admin PGM504 | 1-6 | Not assigned |

1.5.20.4 Rate For Room Class – PGM Code 503

iPECS Administration S/W Upgrade System Management Log Out

[Rate For Room Class]

Enter Room Class No (1 ~ 20) : Load Overview Save

Room Class No 1

| Attribute | Value | Range |
|------------------------------|--------------------------------|------------------|
| Room Type Name | <input type="text"/> | Max 6 Characters |
| Room Cost | <input type="text" value="0"/> | 0 ~ 9999999 |
| Part Time Index [PGM 507] | 1 <input type="text"/> | 1 ~ 32 |
| | 2 <input type="text"/> | 1 ~ 32 |
| | 3 <input type="text"/> | 1 ~ 32 |
| | 4 <input type="text"/> | 1 ~ 32 |
| | 5 <input type="text"/> | 1 ~ 32 |
| | 6 <input type="text"/> | 1 ~ 32 |

Figure 1.5.20.4-1 Rate For Room Class

This feature allows the operator to assign room type name, room cost and part time fees. This information is used to calculate room charge when a guest checks out.

Table 1.5.20.4-1 Rate For Room Class Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|------------------|----------------------------|------------------|
| Room type Name | Title for room class | Max 5 Characters |
| Room Cost | Cost for room class | 0-9999999 |
| Part Time Bin No | Fee for part time table no | |

1.5.20.5 Call Charge Rate – PGM Code 504

Selecting the Call Charge Rate returns the sub-menu displayed in Figure 1.5.20.5-1.

| Index | Rate(%) | Name | Remark |
|-------|----------------------|----------------------|----------------------------------|
| 1 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |
| 2 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |
| 3 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |
| 4 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |
| 5 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |
| 6 | <input type="text"/> | <input type="text"/> | Rate:0~999, Name:Max 6Characters |

Figure 1.5.20.5-1 Call Charge Rate

Table 1.5.20.5-1 Call Charge Rate

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|--------------------------|------------------|---------|
| Rate | Percent of Call Change | 0-999 | |
| Name | Name of Call Charge rate | Max 6 Characters | |

1.5.20.6 Bar/MiniBar List – PGM Code 505

Selecting Bar/MiniBar List will display the page shown, Figure 1.5.20.6-1.

Figure 1.5.20.6-1 Bar/MiniBar List

iPECS-MG system supports 100 bar/mini-bar items.

Table 1.5.20.6-1 Bar/MiniBar List Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------------|---|---------|
| Bar Item Name | Name of Mini Bar item. | |
| Cost | Cost of Mini Bar Item. | 0 |
| Tax rate Bin No | Tax rate index of Mini Bar item. This Call Tax Rate index is linked with Tax Rate for bill Admin PGM505. | 1 |

1.5.20.7 Tax Rate For Bill – PGM Code 506

Selecting the Tax Rate For Bill returns the sub-menu displayed in Figure 1.5.20.7-1.

| Index | Rate(%) | Remark |
|-------|---------|--------------|
| 1 | 0.00 | 0.00 ~ 99.99 |
| 2 | 0.00 | 0.00 ~ 99.99 |
| 3 | 0.00 | 0.00 ~ 99.99 |
| 4 | 0.00 | 0.00 ~ 99.99 |
| 5 | 0.00 | 0.00 ~ 99.99 |

Figure 1.5.20.7-1 Tax Rate For Bill

Table 1.5.20.7-1 Tax Rate For Bill

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|----------------|-----------|---------|
| Rate | Percent of Tax | 0.0-99.99 | 0.0 |

1.5.20.8 Fee For Part Time – PGM Code 507

Selecting Fee For Part Time will display the page shown, Figure 1.5.20.8-1.

| Index | Part Time Range(H-H) (0~24) | Rate(%) (0~100) | Remark |
|-------|---|----------------------|----------------------|
| 1 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 2 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 3 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 4 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 5 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 6 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 7 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 8 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 9 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 10 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 11 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 12 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 13 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 14 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 15 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 16 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 17 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 18 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 19 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 20 | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> |

Figure 1.5.20.8-1 Fee For Part Time

In case the day of check-in is the same as the day of check-out, a part time fee may be assessed according to the room type of checked in room or hotel policy. Each room type may have up to 6 fields for different part-time ranges and fees. There are 32 fields available to program part time range and fee in entire hotel system.

Table 1.5.20.8-1 Fee For Part Time Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------------|---|---------|
| Part Time Range | The Time range when will be applied part time | 0-24 |
| Rate (%) | Rate for original room charge | 0-100 |
| Remark | Title for part time rate | |

1.5.20.9 Dial One digit Service – PGM Code 508

Selecting the Dial One Digit Service returns the page shown, Figure 1.5.20.9-1.

| Index | Attribute | Value | Range |
|-------|-----------|----------------------|--------------|
| 1 | Digit '1' | <input type="text"/> | MAX 8 digits |
| 2 | Digit '2' | <input type="text"/> | MAX 8 digits |
| 3 | Digit '3' | <input type="text"/> | MAX 8 digits |
| 4 | Digit '4' | <input type="text"/> | MAX 8 digits |
| 5 | Digit '5' | <input type="text"/> | MAX 8 digits |
| 6 | Digit '6' | <input type="text"/> | MAX 8 digits |
| 7 | Digit '7' | <input type="text"/> | MAX 8 digits |
| 8 | Digit '8' | <input type="text"/> | MAX 8 digits |
| 9 | Digit '9' | <input type="text"/> | MAX 8 digits |
| 10 | Digit '0' | <input type="text"/> | MAX 8 digits |
| 11 | Digit '*' | <input type="text"/> | MAX 8 digits |
| 12 | Digit '#' | <input type="text"/> | MAX 8 digits |

Figure 1.5.20.9-1 Dial One Digit Service

When a guest dials only one digit (0~9,*, #) and waits for a certain period of time, a call is made to a specific extension (front desk, service station), enabling a guest to call a front desk or a service station easily.

If there are one-digit numbering plan codes, one digit service is not available for those digits. That is, if the CO Group Access Code value is set to 9 in CO Group Access Code (PGM 114), then One Digit Service for digit 9 is not available. Or, if the Attendant Call feature code is set to 0 in Feature Numbering Plan (PGM 113), then One Digit Service for digit 0 is not available. In addition, this feature is not available for office extension.

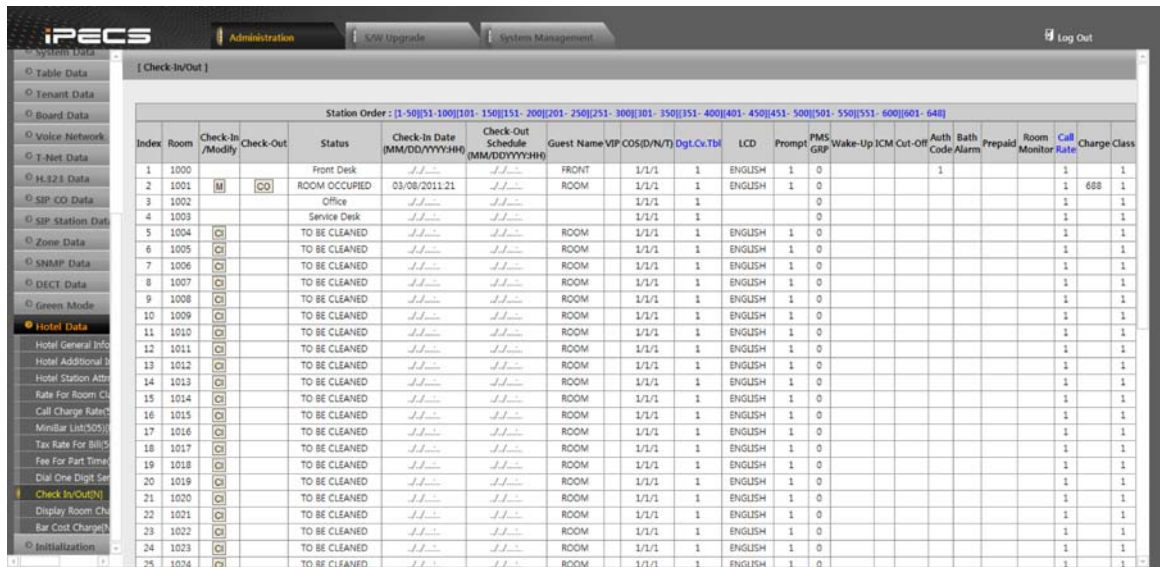
Table 1.5.20.9-1 Hotel General Info

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|--|--------------|---------|
| Digit "1" | Determines the destination number for digit "1". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "2" | Determines the destination number for digit "2". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "3" | Determines the destination number for digit "3". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------|--|--------------|---------|
| Digit "4" | Determines the destination number for digit "4". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "5" | Determines the destination number for digit "5". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "6" | Determines the destination number for digit "6". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "7" | Determines the destination number for digit "7". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "8" | Determines the destination number for digit "8". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "9" | Determines the destination number for digit "9". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "0" | Determines the destination number for digit "0". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "*" | Determines the destination number for digit "*". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |
| Digit "#" | Determines the destination number for digit "#". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination. | Max 8 digits | |

1.5.20.10 Check In/Out

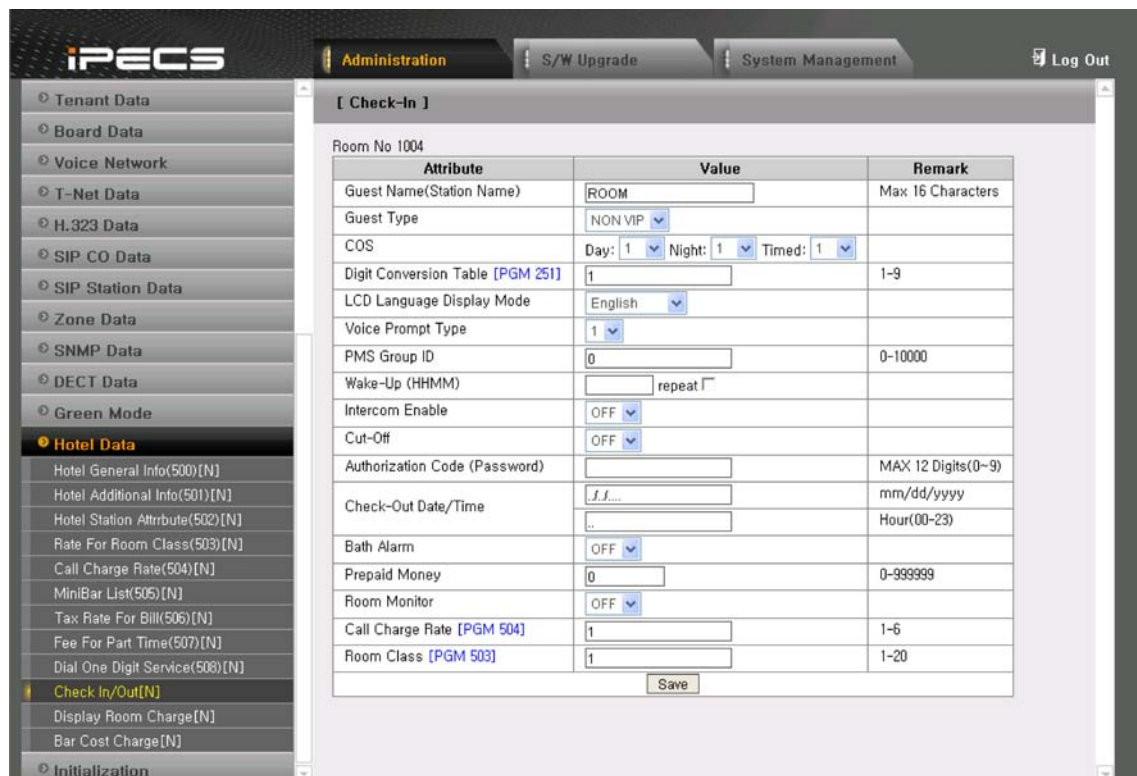
Selecting Check In/Out will display the page shown, Figure 1.5.20.10-1.



| Index | Room | Check-In/Modify | Check-Out | Status | Check-In Date (MM/DD/YYYYHH) | Check-Out Date (MM/DD/YYYYHH) | Guest Name | VIP | COS(D/N/T) | Dgt.Cv.Tbl | LCD | Prompt | PMS GRP | Wake-Up | ICM | Cut-Off | Auth. Code | Bath Alarm | Prepaid | Room Monitor | Call Rate | Charge Class |
|-------|------|-----------------|-----------|---------------|------------------------------|-------------------------------|------------|-------|------------|------------|-----|--------|---------|---------|-----|---------|------------|------------|---------|--------------|-----------|--------------|
| 1 | 1000 | | | Front Desk | | | FRONT | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | 1 | | | | 1 | 1 |
| 2 | 1001 | [M] | [CO] | ROOM OCCURRED | 03/08/2011:21 | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 688 |
| 3 | 1002 | | | Office | | | | 1/1/1 | 1 | | | | | | | | | | | | 1 | 1 |
| 4 | 1003 | | | Service Desk | | | | 1/1/1 | 1 | | | | | | | | | | | | 1 | 1 |
| 5 | 1004 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 6 | 1005 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 7 | 1006 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 8 | 1007 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 9 | 1008 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 10 | 1009 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 11 | 1010 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 12 | 1011 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 13 | 1012 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 14 | 1013 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 15 | 1014 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 16 | 1015 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 17 | 1016 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 18 | 1017 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 19 | 1018 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 20 | 1019 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 21 | 1020 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 22 | 1021 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 23 | 1022 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 24 | 1023 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |
| 25 | 1024 | [O] | | TO BE CLEANED | | | ROOM | 1/1/1 | 1 | ENGLISH | 1 | 0 | | | | | | | | | 1 | 1 |

Figure 1.5.20.10-1 Check In/Out

- Check-In/Modify status of room: This feature allows operator to check in and modify status of room. Click **[CI]** or **[Mo]** button, then new input entry page will be displayed, Figure 1.5.20.10-2 or Figure 1.5.20.10-3.



| Attribute | Value | Remark |
|----------------------------------|--------------------------|---------------------------|
| Guest Name(Station Name) | ROOM | Max 16 Characters |
| Guest Type | NON VIP | |
| COS | Day: 1 Night: 1 Timed: 1 | |
| Digit Conversion Table [PGM 251] | 1 | 1-9 |
| LCD Language Display Mode | English | |
| Voice Prompt Type | 1 | |
| PMS Group ID | 0 | 0-10000 |
| Wake-Up (HHMM) | repeat | |
| Intercom Enable | OFF | |
| Cut-Off | OFF | |
| Authorization Code (Password) | | MAX 12 Digits(0-9) |
| Check-Out Date/Time | .. | mm/dd/yyyy Hour(00-23) |
| Bath Alarm | OFF | |
| Prepaid Money | 0 | 0-999999 |
| Room Monitor | OFF | |
| Call Charge Rate [PGM 504] | 1 | 1-6 |
| Room Class [PGM 503] | 1 | 1-20 |

Save

Figure 1.5.20.20-2 Check In

iPECS Administration S/W Upgrade System Management Log Out

[Modify]

Room No 1004

| Attribute | Value | Remark |
|----------------------------------|--------------------------|--------------------|
| Guest Name (Station Name) | ROOM | Max 16 Characters |
| Guest Type | NON VIP | |
| Room Status | ROOM OCCUPIED | |
| COS | Day: 1 Night: 1 Timed: 1 | |
| Digit Conversion Table [PGM 251] | 1 | 1-9 |
| LCD Language Display Mode | English | |
| Voice Prompt Type | 1 | |
| PMS Group ID | 0 | 0-10000 |
| Wake-Up (HHMM) | repeat | |
| Intercom Enable | OFF | |
| Cut-Off | OFF | |
| Authorization Code (Password) | | MAX 12 Digits(0-9) |
| Check-Out Date/Time | ..:.. | mm/dd/yyyy |
| Bath Alarm | OFF | Hour(00-23) |
| Prepaid Money | 0 | 0-999999 |
| Room Monitor | OFF | |
| Call Charge Rate [PGM 504] | 1 | 1-6 |
| Room Class [PGM 503] | 1 | 1-20 |

Save

Figure 1.5.20.10-3 Modify

Table 1.5.20.10-1 Check In/Modify

| ATTRIBUTE | DESCRIPTION | REMARK |
|---------------------------|---|---|
| Guest Name (Station Name) | Guest Name, The name is displayed on the LCD of Digital Phone. | Max 16 characters |
| Guest Type | Specify guest type (VIP or non-VIP) | NON VIP / VIP |
| Room Status | This is only available in 'Modify' mode. Update maid status for guest room checked in. | TO BE CLEANED/ UNDER CLEANING/ READY FOR SALE/ OUT OF SERVICE/ UNDER REPAIR/ REPAIR COMPLETE/ ROOM OCCUPIED |
| COS Day/Night/Timed | Specify Guest's COS (Class-of-Service). Which determines the ability of the user to dial certain types of calls, refer to Table 2.3.3.6-1,2. Separate COS assignments are made for Day, Night and Times Mode system operation. Maximum level of COS privileges is 16 (0~15). These privileges are represented in Toll Exception Table (PGM 250). This COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. | 0 ~ 15 |

| ATTRIBUTE | DESCRIPTION | REMARK |
|-------------------------------|---|--|
| Digit Conversion Table | The Digit Conversion Table index is assigned to the Guest Station. | MG100 system: 1-5 MG300 system: 1-9 |
| LCD Language Display Mode | Sets the Language used in the Guest Station's LCD | English/ Italian/ Finnish/ Dutch/ Swedish/ Danish/ Norwegian/ Hebrew/ German/ French/ Portuguese/ Spanish/ Korean/ Estonian/ Russian/ Turkish/ Polish/ Greek |
| Voice Prompt Type | Selected language type prompt is played to the guest when accessing the VMIB. It is same as 'Prompt Language Index' in PGM 145. | 1, 2, 3 |
| PMS Group ID | It defines that the guest is included in a particular PMG group. | 0 ~ 10000 |
| Wake-Up (HHMM) | Ser wake-up time | HHMM, repeat |
| Intercom Enable | System is able to enable/disable call between different PMS groups. If this field is ON, guest rooms can make an internal call to other rooms. If this field is OFF, only guest rooms with the same PMS group ID can call each other. | OFF/ON |
| Cut-Off | The use of CO lines from guest stations can be allowed or denied by this. | OFF/ON |
| Authorization Code (Password) | Define the guest's password. It is same as 'Password' in PGM 131. | Max 12 Digits (0~9) |
| Check-Out Date/Time | Specify when the guest will check out. | mm/dd/yyyy hour (0~23) |
| Bath Alarm | Enable/disable bath alarm feature | OFF/ON |
| Prepaid Money | Register/change Prepaid money | 0 ~ 999999 |
| Room Monitor | Enable/disable room monitor (baby listening) | OFF/ON |
| Call Charge Rate | Define call charge rate This Call Charge Rate index is linked with Rate for Call Charge Rate Admin PGM504 | 1 ~ 6 |
| Room Class | Define room class This Room Class index is linked with Rate for Room Class Admin PGM503 | 1 ~ 20 |

- Check-Out: This feature allows operator to check out of rooms. Click "CO" button, then new page will be displayed, Figure 1.5.20.10-4. At this web page, if receipt is needed, then clicks the "Receipt" button. New page will be popped-up Figure 1.5.20.10-5.

[Check-Out]

Payment Method :

Room Number 1001 (Guest-Name :)

Check-In : 03/08/2011:21

Check-Out : 03/09/2011:16 (2 days)

| Start-time | CO | Duration | Dialed-No | Count | Call-Cost | Remark |
|--------------------|-----|----------|-----------|-------|-------------|--------|
| 09/03/11 16:39:31 | 044 | 00:00:04 | 02001 | 1 | 2000 | |
| Total Count | | | | | 2000 | |

| Charged-time | Charged-STA | Item | Bar-Cost | Tax |
|--------------------|-------------|------|----------|-----|
| 03/09-09:28 | (mini-bar) | MILK | 343 | 34 |
| 03/09-09:28 | (mini-bar) | BEER | 345 | 34 |
| Total Count | | | 2 | |

| Item | Charge | Tax(rate) | Sum |
|--------------|--------|---------------|---------------|
| ROOM CHARGE | 280000 | 28000 (10,00) | 308000 |
| CALL CHARGE | 2000 | 200 (10,00) | 2200 |
| BAR CHARGE | 688 | 68 | 756 |
| PRE-PAID | | | 0 |
| TOTAL | | | 310956 |

Figure 1.5.20.10-4 Check Out

[Receipt]

Receipt

Room No : 1001 (Guest Name :)

Check-In : 03/08/2011:21

Check-Out : 03/09/2011:16

| Item | Cost | Tax | Sum |
|---------------|--------|-------|---------------|
| • Room Charge | 280000 | 28000 | 308000 |
| • Call Charge | 2000 | 200 | 2200 |
| • Bar Charge | 688 | 68 | 756 |
| Total | | | 310956 |

11.03.09

Signature :

Figure 1.5.20.10-5 Receipt

1.5.20.11 Display Room Charge

Selecting Display Room Charge will display the page shown, Figure 1.5.20.11-1.

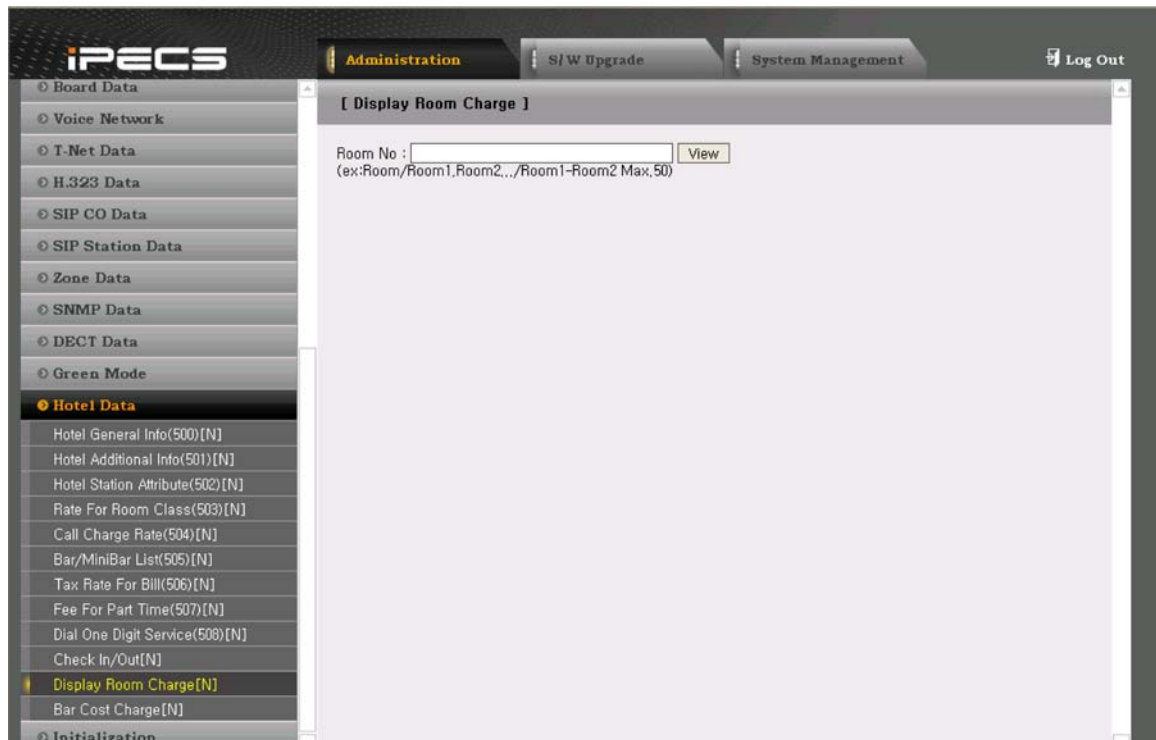


Figure 1.5.20.11-1 Display Room Charge

This feature is used to display each room total charge. Fill the Room No field and press “View” button, then total charge of room will be displayed.

Table 1.5.20.11-1 Display Room Charge Attributes

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------|--|---------|
| Room | Type room number to see detail room charge. There are 3 methods to see room charge. 1. Input single room number (ex: 100) 2. Input multiple room number (ex: 100, 101, 105) 3. Input room range (ex: 100-110) | |

1.5.20.12 Bar Cost Charge

Selecting Bar Cost Charge will display the page shown, Figure 1.5.20.12-1.

| Attribute | Value | Range |
|-------------------|----------------------|------------------|
| Charged Room No | <input type="text"/> | |
| Bar Code [PGM505] | <input type="text"/> | 1 ~ 100 |
| Bar Cost | <input type="text"/> | -999999 ~ 999999 |

Save

Figure 1.5.20.12-1 Bar Cost Charge

Mini-bar charge of each room can be registered from this menu. It can be displayed or printed upon hotel charge display and check-out.

Table 1.5.20.12-1 Bar Cost Charge

| ATTRIBUTE | DESCRIPTION | DEFAULT |
|-----------------|---|------------------|
| Charged Room No | Guest station room number | |
| Bar Code | Bar Code Index among MiniBar List Table | 1 ~ 100 |
| Bar Cost | (mini) Bar Cost | -999999 ~ 999999 |

1.5.21 Initialization

Selecting Initialization will return the sub-menu in Figure 1.5.21-1.



Figure 1.5.21-1 Initialization

1.5.21.1 Initialization – PGM Code 499

Selecting Initialization will display the page shown, Figure 1.5.21.1-1.

| Select | Attribute | Value |
|--------------------------|---------------------|---|
| <input type="checkbox"/> | All Database | |
| <input type="checkbox"/> | Station Data | <input type="text"/> - <input type="text"/> |
| <input type="checkbox"/> | Station Button Data | <input type="text"/> - <input type="text"/> |
| <input type="checkbox"/> | CO Line Data | <input type="text"/> - <input type="text"/> |
| <input type="checkbox"/> | Station Group Data | |
| <input type="checkbox"/> | System Data | |
| <input type="checkbox"/> | SMDR Data | |
| <input type="checkbox"/> | System Timer | |
| <input type="checkbox"/> | Table Data | |
| <input type="checkbox"/> | Tenant Data | |
| <input type="checkbox"/> | Networking Data | |
| <input type="checkbox"/> | SIP Data | |
| <input type="checkbox"/> | Hotdesk Logout | <input type="text"/> - <input type="text"/> |
| <input type="checkbox"/> | Hotel Data | |

Initialize
Reset System

Figure 1.5.21.1-1 Initialization

The system has been pre-programmed with certain features using the default data. The default data are loaded into memory when the system is initialized. The system should always be initialized when first installed or the database will appear corrupted. The system can be initialized manually during installation, refer to the *iPECS-MG Description & Installation Manual*, Section 4.4.1.2. After Initialization, the system should be reset.

Table 1.5.21.1-1 INITIALIZATION

| DISPLAY | REMARK | RANGE |
|---------------------|--|---|
| All Database | Initialize all databases. | - |
| Station Data | Initialize station-based data (except flexible button data). | Desired station range (init whole data when no range) |
| Station Button Data | Initialize flexible button data. | Desired station range (init whole data when no range) |
| CO Line Data | Initialize CO line-based data. | Desired CO line range (init whole data when no range) |
| Station Group Data | Initialize Station Group-based data. | |
| System Data | Initialize System-based data. | |
| SMDR Data | Initialize SMDR data. | |
| System Timer | Initialize System Timers. | |
| Table Data | Initialize Table-based data. | |
| Tenant Data | Initialize Tenant Group-based data. | |
| Networking Data | Initialize Networking data. | |
| SIP Data | Initialize SIP data. | |
| Hot Desk Logout | Force to Log-out Hot Desk Agent. | Desired station range |
| Hotel Data | Initialize Hotel data | |
| Reset System | Restart the system | |

1.6 File Upload & Upgrade

The iPECS-MG systems employ a NAND based memory file system; HTML, MPB upgrade and iPECS-MG appliance image files can be uploaded. Selecting S/W Upgrade from the main Web screen returns the page shown and sub-menus as shown, Figure 1.6-1.

The screenshot shows the iPECS-MG Web Administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade' (highlighted), and 'System Management'. The left sidebar contains a list of navigation options: 'File Upload', 'G/W Upgrade', 'Upgrade Process View', 'VMIB Prompt Upgrade', 'AAFU SG Up&download', and 'BASE Upgrade'. The main content area is titled 'iPECS-MG Version Information' and displays the following information:

iPECS-MG/GS56M-A.0A1 JUN/09
Boot Version-1.0Ad MAY/09

iPECS-MG300 Version : iPECS-MG/GS56M-A.0A1 JUN/09

Appliances Version

| Classification | Type | Slot No. | Logical Num | IP Address | Version | Connection | State |
|----------------|--------|----------|-------------|------------|---------|------------|--|
| CQ | LC0B8 | 4 | 9 - 16 | | | ACTIVE | [9:Idle][10:N/A][11:N/A][12:N/A][13:Idle][14:N/A][15:N/A][16:N/A] |
| CQ/STN | BRIB | 3 | 1 - 8 | | A0Ac | ACTIVE | [1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:Idle][8:Idle] |
| VM | AAFU | 0 | 1 - 4 | | A0A1 | ACTIVE | [1:Idle][2:Idle][3:Idle][4:Idle] |
| VM | AAIB | 6 | 5 - 12 | | A0Ae | ACTIVE | [5:Idle][6:Idle][7:Idle][8:Idle][9:Idle][10:Idle][11:Idle][12:Idle] |
| STN | DTIB24 | 2 | 100 - 123 | | | ACTIVE | [100:N/A][101:Idle][102:Idle][103:Idle][104:N/A][105:N/A][106:N/A][107:N/A][108:N/A][109:N/A][110:N/A][111:N/A][112:N/A][113:N/A][114:N/A][115:N/A][116:N/A][117:Idle][118:N/A][119:N/A][120:N/A][121:N/A][122:N/A][123:N/A] |
| STN | WTIB | 5 | 124 - 131 | | A0Ac | ACTIVE | [124:N/A][125:N/A][126:N/A][127:N/A][128:N/A][129:N/A][130:N/A][131:N/A] |

Figure 1.6-1 File Upload & Upgrade

In addition to the appliance image, prompts, system greetings and BASE upgrade image can be uploaded. Prompt upgrade supports both VMIB and AAFU. System greetings are only supported in AAFU format, both upload and download can be done. BASE upgrade support upgrading BASE connected to WTIB.

1.6.1 File Upload

From the File Upload page (Figure 1.6.1-1 File Upload), select files to upload to system memory and click the **[Upload]** button. File Upload menu is not only employed for MPB upgrade, but also for G/W upgrade and VMIB prompt upgrade. MPB upgrade is completed just as uploading MPB S/W file. MPB S/W file is sent to the system memory, saved and automatically loaded upon a system reset or restart. HTML image files included MPB S/W file are extracted and previous HTML files are deleted on completion of the upload process. G/W and Prompt upgrade need more steps after uploading G/W upgrade file and Prompt file.(refer to 1.6.2 G/W upgrade and 1.6.4 VMIB Prompt Upgrade).

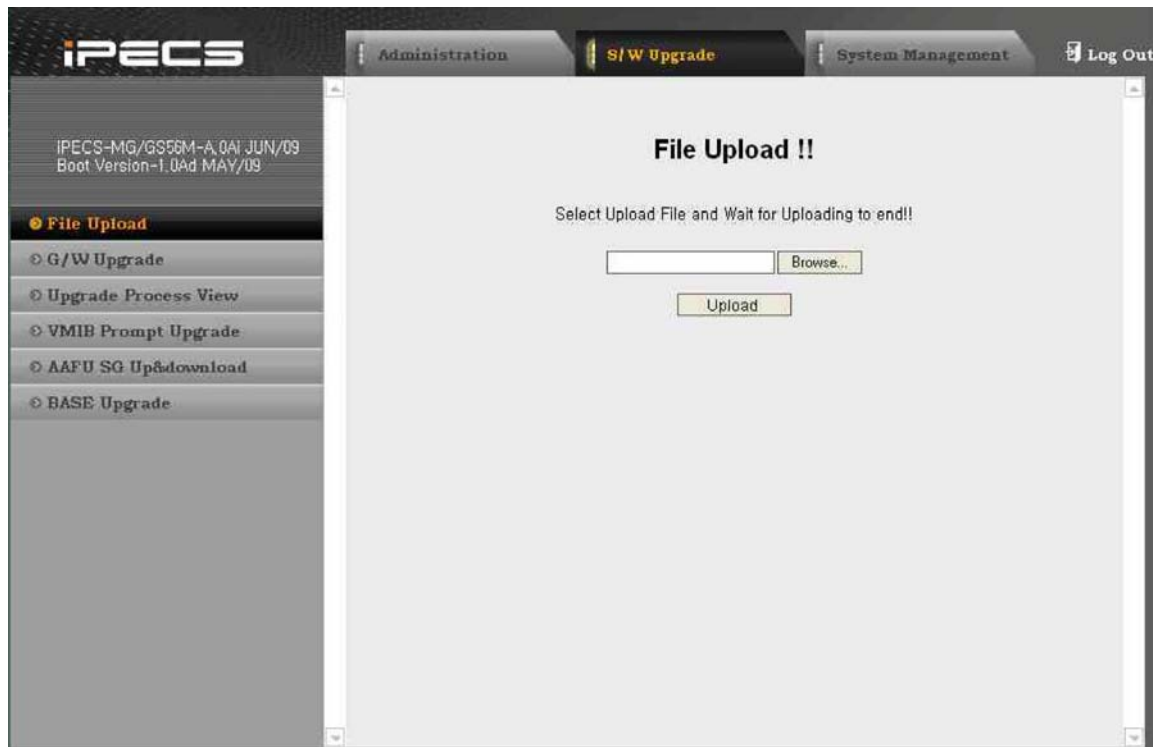


Figure 1.6.1-1 File Upload

NOTE

If file upload succeeds, a success Confirmation page will be displayed.

1.6.2 G/W Upgrade

If the iPECS-MG Appliance image file is uploaded (including already-uploaded files), all uploaded appliance image files will be listed along with the type, as shown, Figure 1.6.2-1 G/W Upgrade.

1. If the desired appliance image file is not uploaded, upload the appliance file using the "File Upload" menu.
2. Click **[Select]**; the corresponding appliances are displayed.
3. Select the appliances to upgrade.
4. Click **[Upgrade]**; the upgrade process will start and a progress screen will be displayed.

NOTE

If the Appliance is already in the process of an upgrade, Figure 1.6.2-2 Upgrade Process Working is displayed to indicate the upgrade in process.



Figure 1.6.2-1 G/W Upgrade

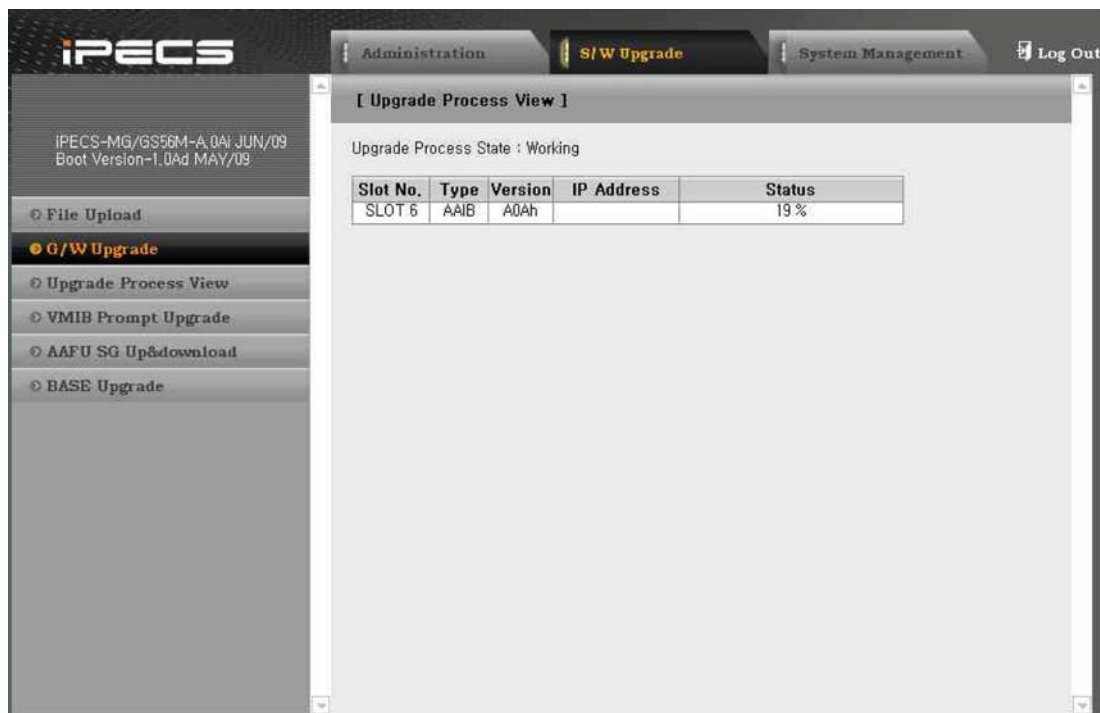


Figure 1.6.2-2 Upgrade Process Working

1.6.3 Upgrade Process View

The Upgrade Process View provides a status window (Figure 1.6.3-1 Upgrade Process View); not only for appliance board and terminal upgrade activity in process but also VMIB prompt upgrade.

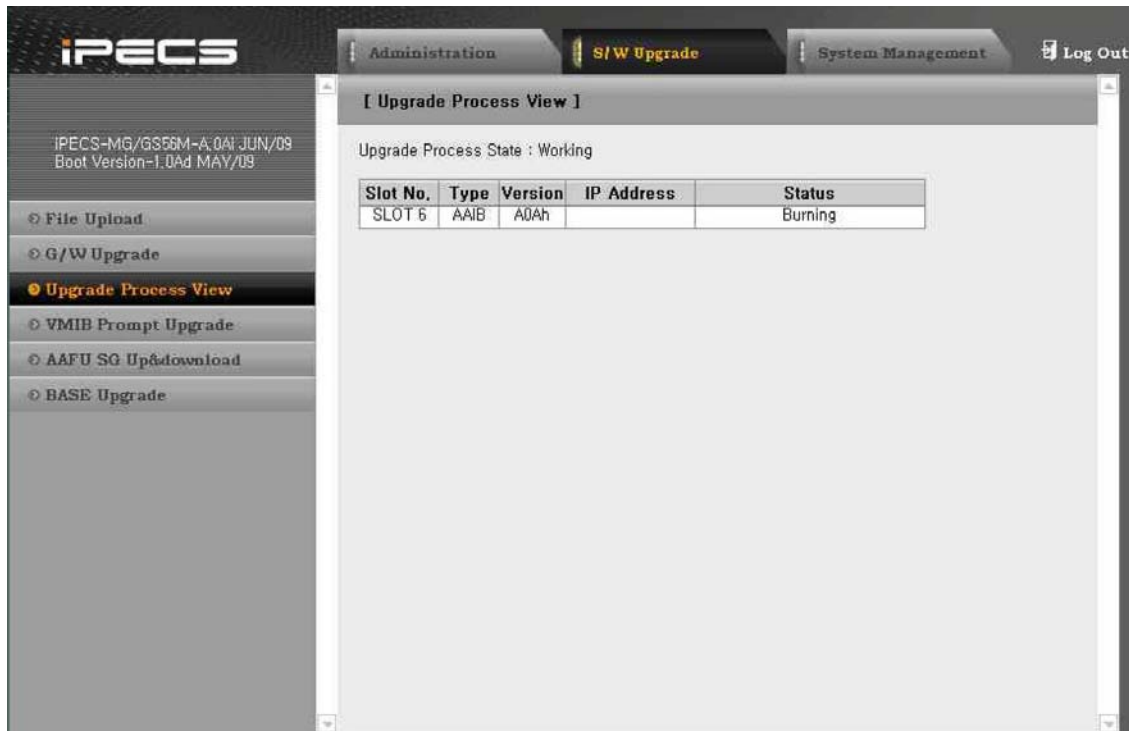


Figure 1.6.3-1 Upgrade Process View

1.6.4 VMIB Prompt Upgrade

AAFU and VMIBs inserted in the iPECS-MG system have their own prompt. As in G/W Upgrade, prompt files should be uploaded in the systems memory first, then perform the following:

1. After uploading the desired prompt files at the “File Upload” menu, move to this “VMIB Prompt Upgrade” menu.
2. Select the prompt file to upgrade and Click **[Select]** button.
3. Select the desired VMIB slot and prompt index.
4. Click **[Upgrade]** button, as shown in Figure 1.6.4-1 VMIB Prompt Upgrade and then the upgrade process will start and a progress screen will be displayed as in G/W upgrade.

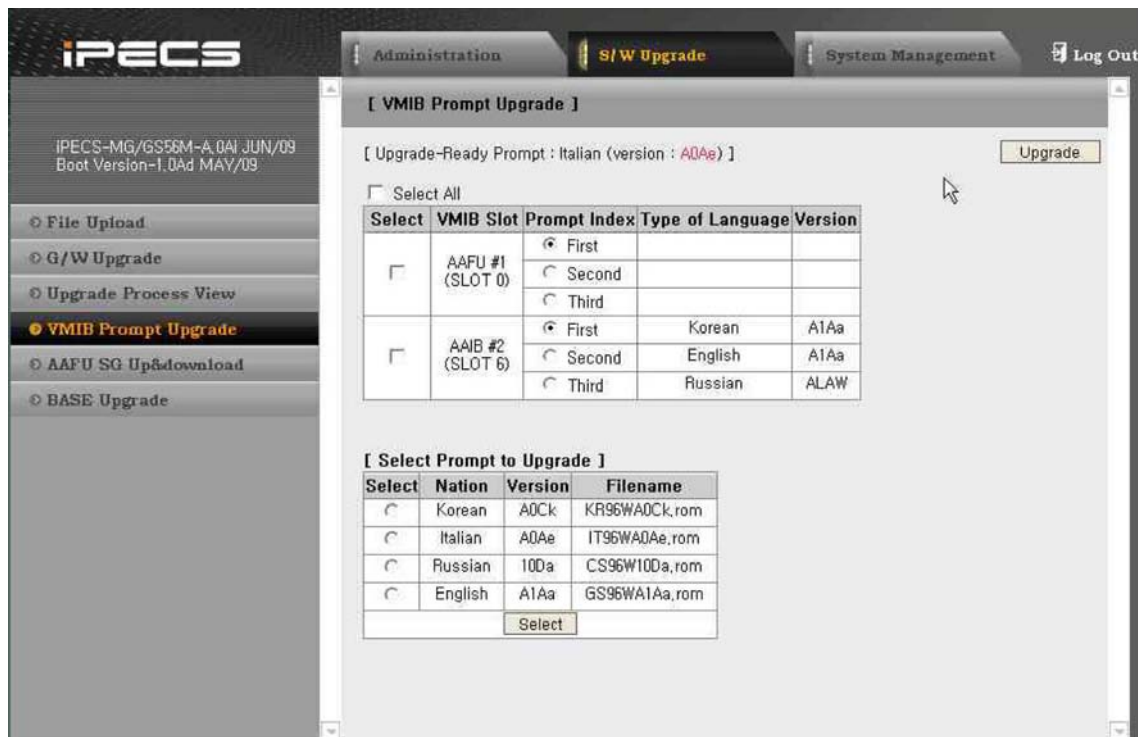


Figure 1.6.4-1 VMIB Prompt Upgrade

1.6.5 AAFU System Greeting Up & Download View

The following screens display Upload and Download of AAFU System Greetings.

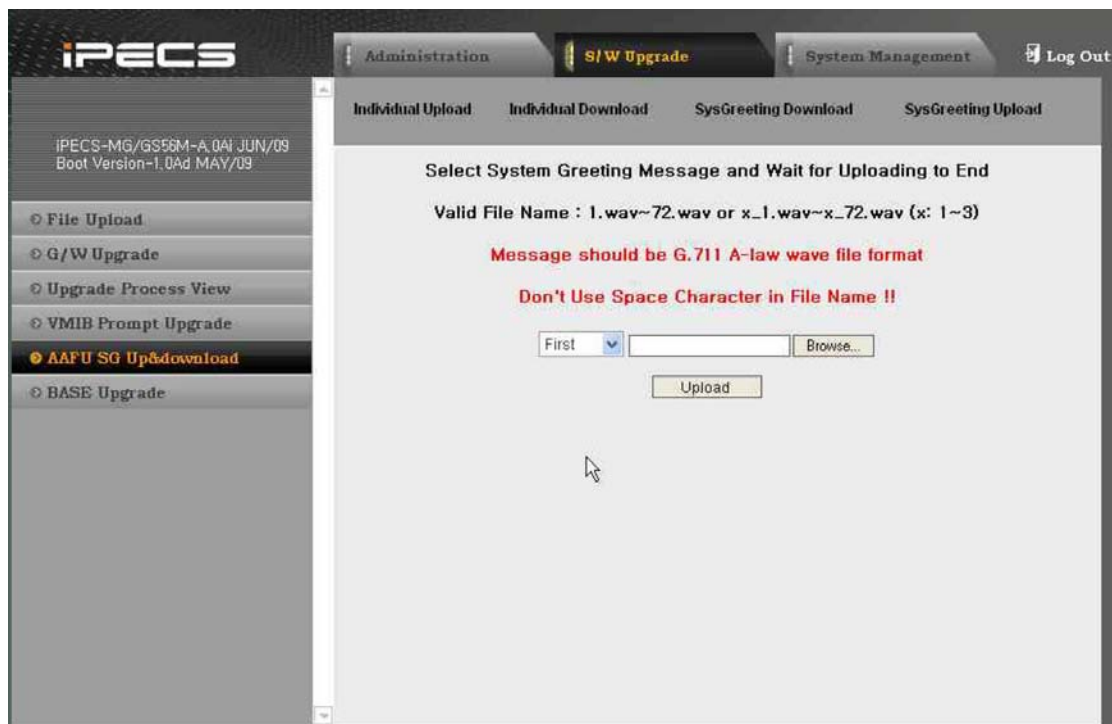


Figure 1.6.5-1 AAFU System Greeting Individual Upload View

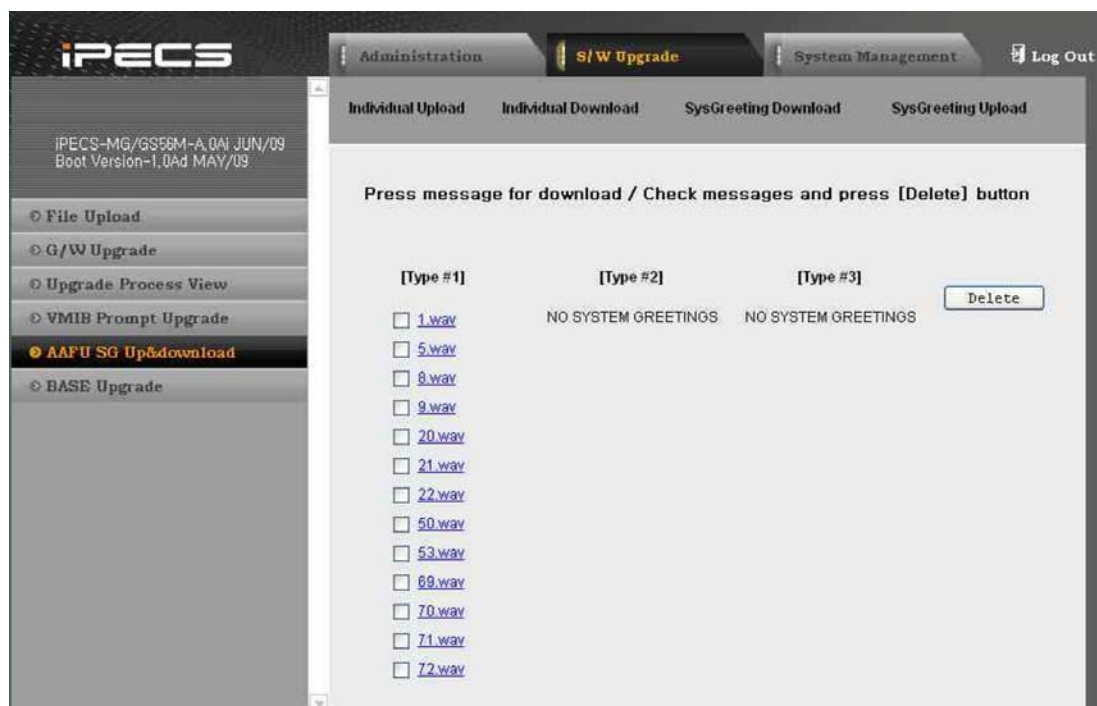


Figure 1.6.5-2 AAFU System Greeting Individual Download View

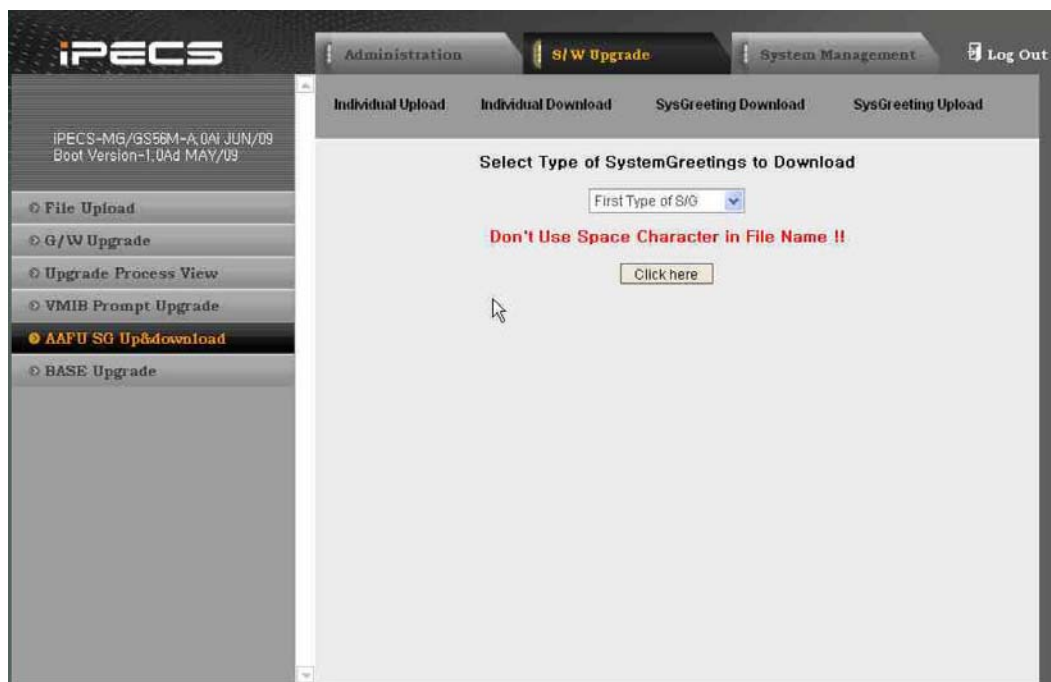


Figure 1.6.5-3 AAFU System Greeting Download View

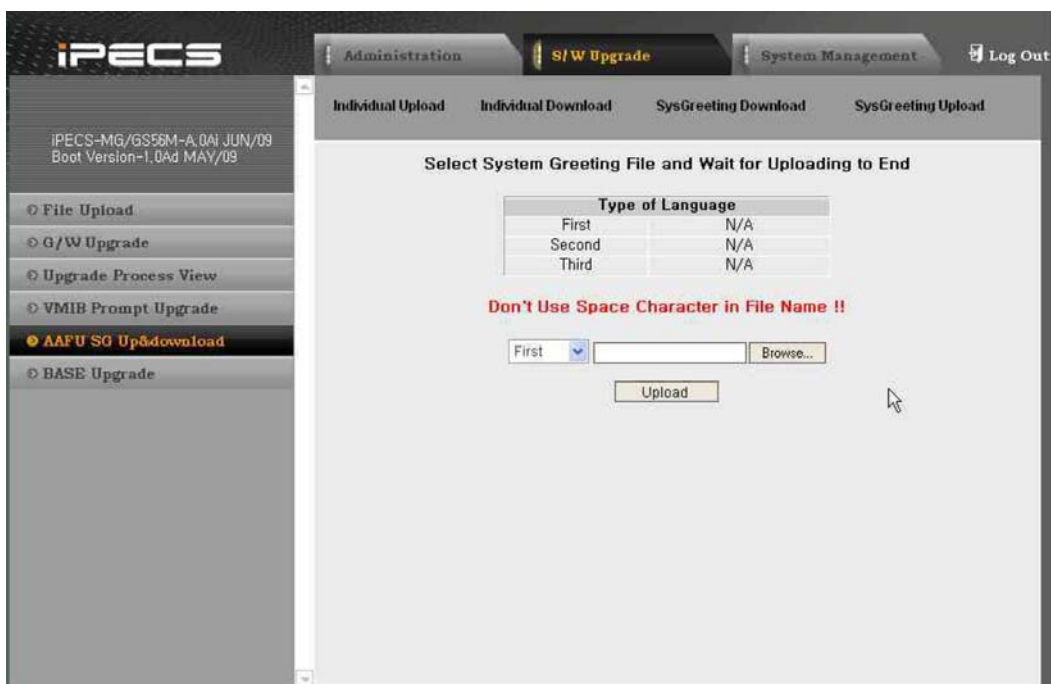


Figure 1.6.5-4 AAFU System Greeting Upload View

1.6.6 WTIB Base Upgrade

WTIBs have two kinds of appliance image files: One for the WTIB itself, and the other for Bases which are connected to WTIB. The WTIB upgrade process is the same as the G/W Upgrade process. In addition to the WTIB (or G/W) Upgrade process, Base upgrade needs one more step to burn the Base image file to the Base. This Base Upgrade menu can be used to burn the Base image file.

1. After uploading the BASE image file in 'File Upload' menu, and after upgrading the BASE image file to WTIB in 'G/W Upgrade' menu, move to this 'BASE Upgrade' menu.
2. Select the desired WTIB slot number to burn BASE image.
3. Click **[Upgrade]** button (shown Figure 1.6.6-1 WTIB Base upgrade).

NOTE

In BASE upgrading, the upgrade process view is not provided, because BASE image burning time is long and the number of BASE is variable. But, this page will be renewed automatically every 10 seconds for notifying upgrade status of BASE after clicking **[Upgrade]** button.



Figure 1.6.6-1 WTIB Base Upgrade

1.6.7 iPECS-MG System Upgrade Process

1.6.7.1 iPECS-MG Software Full Upgrade Sequence

The following shows the order in which the upgrade process proceeds with application software and firmware files for iPECS-MG MPB and other boards.

NOTE

The xxxx in the ROM file names indicates the version number of the file.

To upgrade the MPB:

1. Upload MPB application image.

Ex.,

| |
|--|
| iPECS-MG 100 |
| GS55Mxxxx.rom (xxxx indicates the version) |
| iPECS-MG 300 |
| GS56Mxxxx.rom (xxxx indicates the version) |

2. Restart MPB.

To upgrade the Appliances:

1. Upload Appliance application image to MPB.

Ex.,

| |
|---|
| BRIB application image: |
| GS55Nxxxx. rom (xxxx indicates the version) |
| PRIB/R2 application image: |
| GS55Qxxxx. rom (xxxx indicates the version) |
| SLIB12/32 application image: |
| GS55Sxxxx. rom (xxxx indicates the version) |
| VMIB/AAIB application image: |
| GS55Vxxxx. rom (xxxx indicates the version) |
| VOIB application image: |
| GS55Txxxx. rom (xxxx indicates the version) |
| WTIB application image: |
| GS55Uxxxx. rom (xxxx indicates the version) |

2. Select the G/W Upgrade page.
3. Select appliances application image.
4. Select target appliances & Upgrade application image.
5. Wait until upgrade process completes.
6. Automatically restart when upgrade completes successfully.

To upgrade Voice Prompts in the VMIB/AAFU:

1. Upload voice prompt image to MPB.

Ex.,

| |
|--|
| Voice prompt file- |
| ??96Wxxxx. rom (?? Is nation, i. e. GS, DM, KR, etc. ; xxxx indicates the version) |

2. Select the VMIB Prompt Upgrade page.
3. Select the desired voice prompt image.
4. Select the target VMIB and first/second/third prompt index for multiple language voice prompt & upgrade voice prompt image.
5. Upgrade confirmation will display.

To upload/download System Greetings to/from AAFU:

1. Select AAFU SG Up&Download
2. Select the Upload/Download Type (Individual upload, SysGreeting download, Individual download, SysGreeting upload).
3. Upload or download the desired system-greeting file.

Ex.,

| |
|--|
| System Greeting individual file: |
| x_y. wav (x indicates system greeting type; y indicates system greeting index) |
| System Greeting rom file: |
| SYTYPEx. rom (x indicates system greeting type) |

To upgrade the WTIB Base:

1. Upload Base image to MPB.

Ex.,

| |
|---|
| Base image: |
| GS55Jxxxx. rom (xxxx indicates the version) |

2. Select G/W Upgrade page.
3. Select BASE image.
4. Select target WTIB & Upgrade.
5. Upgrade confirmation will display.
6. Select BASE Upgrade page.
7. Select the target WTIB & Upgrade.
8. Upgrade confirmation will result in refreshing the current page.

1.6.7.2 MPB Upgrade

First, confirm the most recently upgraded version of the MPB, then upload the desired ROM files and reset the system. If the new system database is not compatible with the existing system database, it will be necessary to initialize the system database manually using the Dip-switch on the MPB (Section 1), or use the Initialization process found in Section 1.3 of the ***iPECS-MG Administration & Programming Manual***. Upgrading the MPB includes HTML files (a separate upload of the HTML files is not required).

1.6.7.3 Upgrade HTML Files

In the File Upload Menu, upload the system's HTML files and reloads the page. HTML file upload generally takes about 5 - 10 minutes. Most of the HTML files are included in MPB, so individual HTML upload is not needed.

1.6.7.4 Appliances Upgrade (Gateway Board and IP Phone)

To upgrade appliances:

1. Upload appliance image, and click on G/W Upgrade.
2. Select appliance image.
3. If appliance image is selected, click **[Select]**.
4. Select appliances.
5. If appliances are selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and the upgrade process is in progress.
6. When the appliance upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.

1.6.7.5 Voice Prompt Upgrade

To upgrade Voice Prompts:

1. Upload the voice prompt image, and click VMIB Prompt Upgrade.
2. Select the desired voice prompt image.
3. If voice prompt image is selected, click **[Select]**.
4. Select AAFU/VMIBs.
5. If AAFU/VMIB is selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and upgrade process is progress.
6. When the voice prompt upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.

1.6.7.6 WTIB Base Upgrade

To upgrade the WTIB BASE:

1. Upload Base image, and click G/W Upgrade.
2. Select BASE image.
3. If Base image is selected, click **[Select]**.
4. Select WTIBs.
5. If WTIBs is selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and upgrade process is in progress.
6. When the appliance upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.
8. After successful upgrade, click **[Base Upgrade]** to select WTIBs.
9. If WTIBs are selected, click **[Upgrade]**.
10. The upgrade will be confirmed when page is automatically refreshed.

1.7 System Management

The System Management tab from the main screen permits download of all or portions of the system database, and downloading and viewing of SMDR data, Figure 1.7-1.

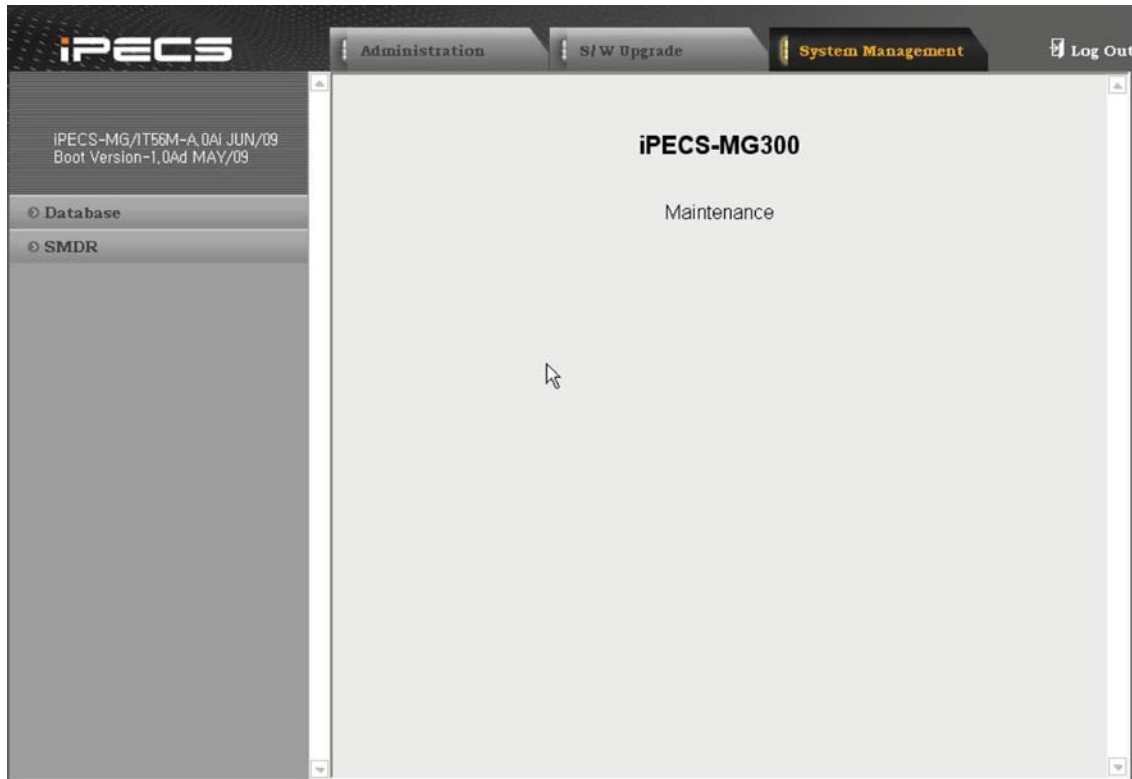


Figure 1.7-1 System Management

1.7.1 Database

Selecting the Database menu item will display the Database sub-menu items, Figure 1.7.1-1.

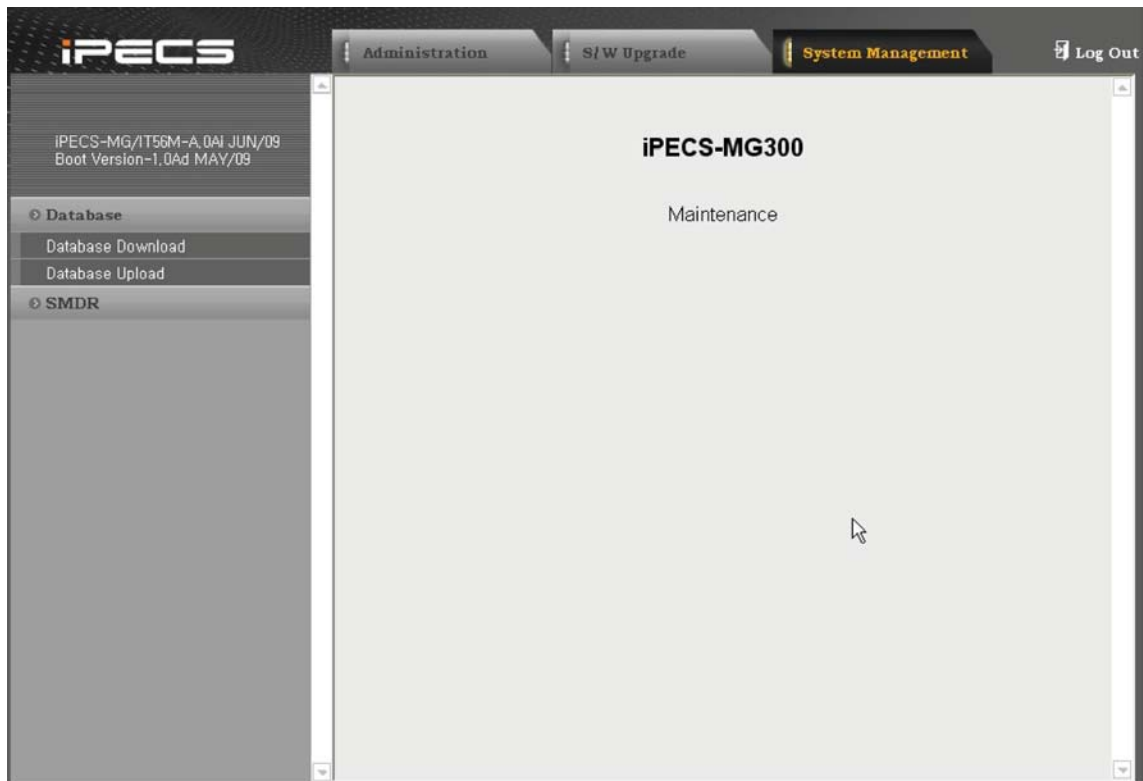


Figure 1.7.1-1 Download & Upload sub-menu

1.7.1.1 Database Download

Selecting Database Download will display the page shown, Figure 1.7.1.1-1. Selecting this option will download the entire iPECS-MG system database to the local PC, and also allows the database in the PC to be uploaded to an iPECS-MG system using the File Upload procedure (Section 1.7.1.2).

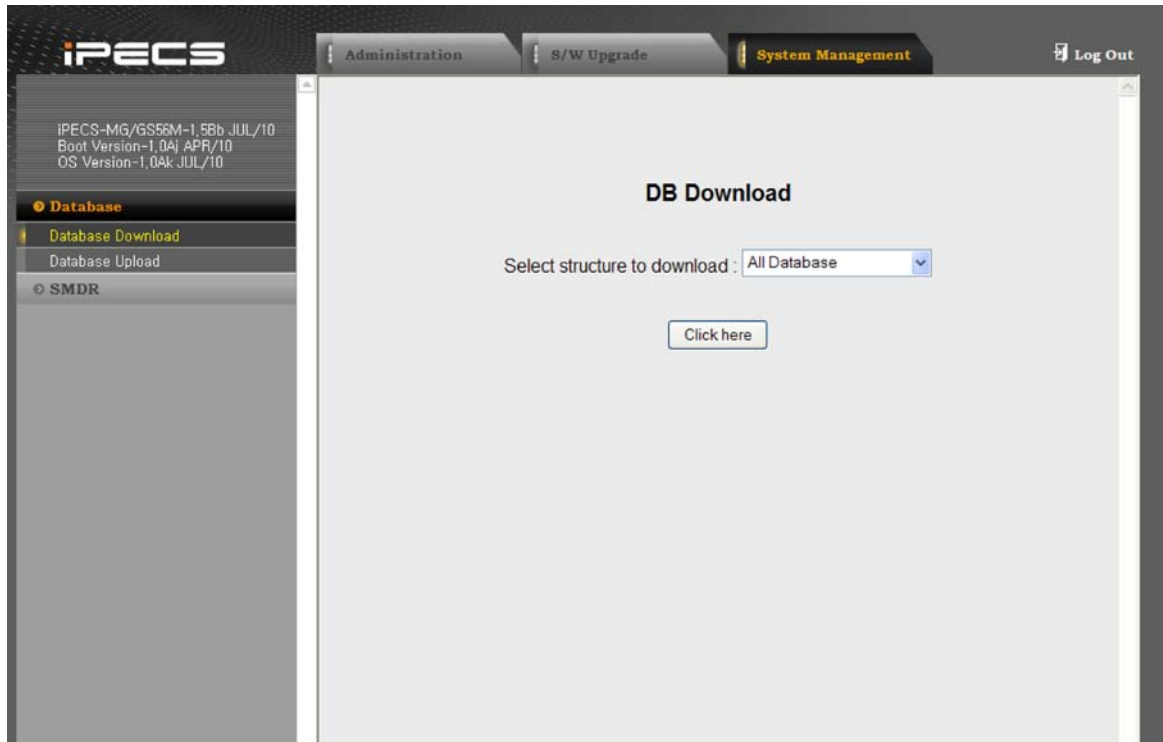


Figure 1.7.1.1-1 Database Download

To download the database:

1. Click on the **[Click here]** button; the File Download window will display.
2. Save files to disk.

NOTE

The following screen will appear for all download processes.

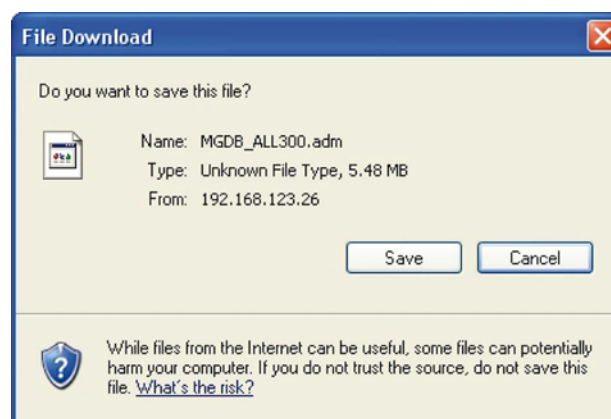


Figure 1.7.1.1-2 Database File Save dialog

1.7.1.2 Database Upload

The Database Upload selection will display the page shown, Figure 1.7.1.2-1. By selecting the database file from the local PC, the desired database can be uploaded to the iPECS system database.

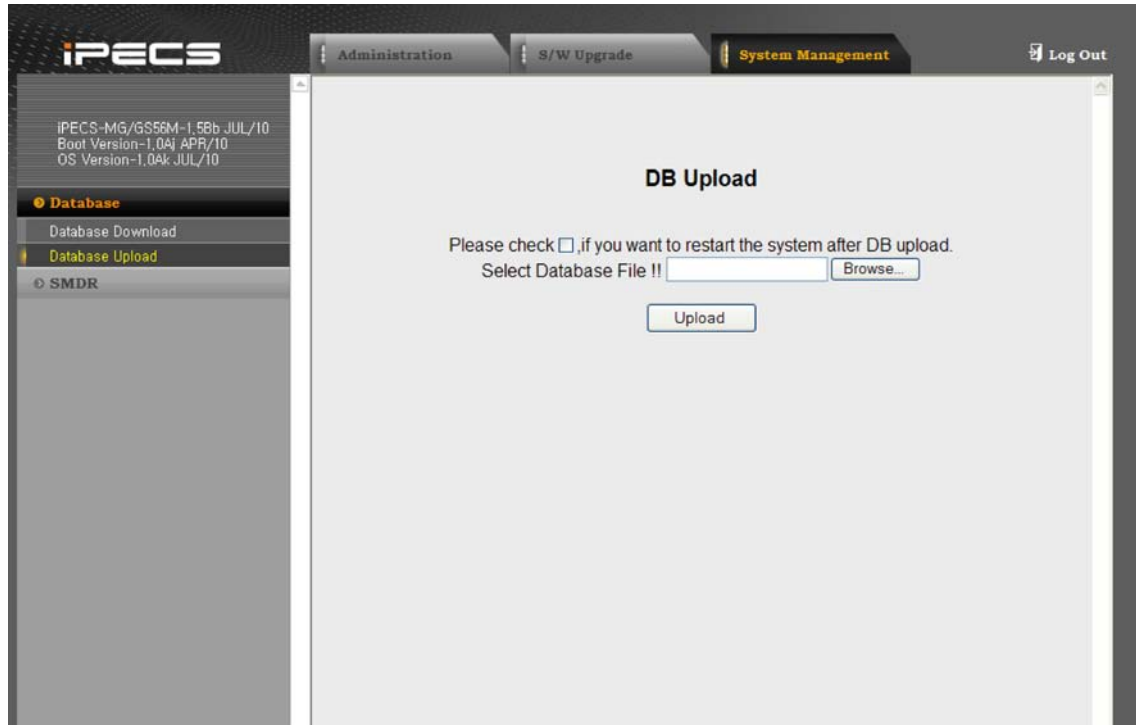


Figure 1.7.1.2-1 Database Upload

1.7.2 SMDR

The iPECS-MG system can download SMDR data in a SYLK format file (.slk). This file can be opened using any common spreadsheet application. The system will provide three types of view of SMDR data - Station range date, Non Station date and All SMDR date. (Figure 1.7.2-1). This page may also be used to delete SMDR records.

The screenshot shows the iPECS-MG web administration interface. The top navigation bar includes 'Administration', 'S/W Upgrade', and 'System Management'. The left sidebar shows the 'Database' menu with 'SMDR' selected. The main content area is titled '[Off-Line SMDR Access]' and contains a table with the following data:

| SMDR All Data Download | | |
|------------------------|---|---------------------------------------|
| SMDR View | Station Range : <input type="text"/> - <input type="text"/> | <input type="button" value="View"/> |
| SMDR Delete | Station Range : <input type="text"/> - <input type="text"/> | <input type="button" value="Delete"/> |
| SMDR View | NON Station Base Data | <input type="button" value="View"/> |
| SMDR Delete | NON Station Base Data | <input type="button" value="Delete"/> |
| SMDR View | All SMDR Data | <input type="button" value="View"/> |
| SMDR Delete | All SMDR Data | <input type="button" value="Delete"/> |

Figure 1.7.2-1 SMDR Access

1.8 Station Program (User Portal)

In Figure 1.2.3-1 Station Password page, enter a station number and password, then 'click' the **[Login]** button to access the Station Program Main Page, refer to Figure 1.8-1.

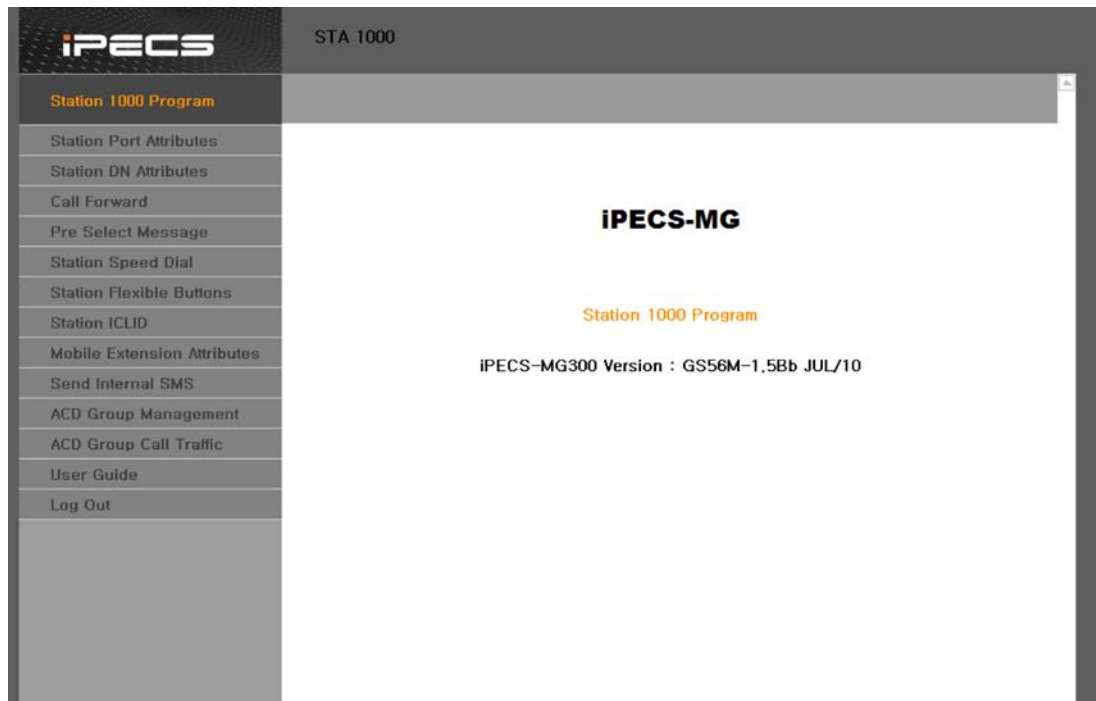


Figure 1.8-1 Station Program Main Page

In the Station Program User Portal, users can modify various station attributes, set-up call forwarding, assign flexible buttons, program Station Speed dial numbers and send SMS. The following sections provide details on each of the available Station Program User portal Web pages.

The Station Program User portal main page has three sections,

- Station selected – Upper frame
- Web site directory & navigation section – Left frame
- Info and Entry section – Central frame

1.8.1 Station Port Attributes

Selecting Station Port Attributes will display the input entry page, Figure 1.8.1-1.

| Order | Attribute | Value |
|-------|-------------------------------|----------------|
| 1 | Headset Mode | Speaker |
| 2 | Headset Ring | Speaker |
| 3 | Use Bluetooth | OFF |
| 4 | LCD Language Display Mode | English |
| 5 | LCD Date Display Mode | DD-MM-YY |
| 6 | LCD Time Display Mode | 12 Hour Mode |
| 7 | Backlight Usage | Busy Only |
| 8 | LIP-8000 Phone Font | Gothic |
| 9 | LIP-8000 Phone LCD Brightness | 7 |
| 10 | Intercom Answer Mode | Tone |
| 11 | Message-Wait Indication | MW Remind Tone |
| 12 | BGM | NO BGM |

Figure 1.8.1-1 Station Port Attributes

Station Port Attributes define the specific features and functions available to the installed terminal.

Table 1.8.1-1 Station Port Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|---|--|---------|
| Headset Mode | Determines if Speakerphone mode, Headset mode or Ear Mic Mode will be used. | 0: Speaker 1: Headset 2: E-MIC | Speaker |
| Headset Ring | In Headset mode, this item selects device to receive incoming ring signals. | 0: Speaker 1: Headset 2: Both 3: E-MIC | Speaker |
| Use Bluetooth | If Bluetooth is supported at the station, you can determine whether station's Bluetooth is used or not. | 0: OFF 1: ON | OFF |
| LCD language Display Mode | Sets the Language used in the Station's LCD; refer to Table 2.3.3.2-2. | English Italian Finnish Dutch Swedish Danish Norwegian Hebrew German French Portuguese Spanish Korean Estonian Russian | English |

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------|---|---|----------------------|
| LCD Date Display Mode | Sets the Station Date display as month/day or day/month. | 1: DDMMYY 0: MMDDYY | DDMMYY |
| LCD Time Display Mode | Sets the Time display mode as 12 hour or 24-hour (military) time. | 1: 12 Hour Mode 0: 24 Hour Mode | 12 Hour |
| Backlight Usage | If a station can support LCD backlight, you can set backlight usage option. | 0: Always Off 1: Busy Only 2: Always On 3: Auto (PGM 281-7) 4: Delayed Off | Busy Only |
| LIP-8000 Phone Font | Determines if Times New Roman or Gothic font is used. | 0: Times New Roman 1: Gothic | Gothic |
| LIP-8000 Phone LCD Brightness | LIP 8000 Series terminal can adjust LCD brightness. | 00-15 | 07 |
| Intercom Answer Mode | Selects Handsfree, Privacy or Tone ring ICM Signaling mode. | 1: Handsfree 2: Tone 3: Privacy | Tone |
| Message-Wait Indication | Determines the way to notify a station of wait message. | 0: N/A 1: Ring LED 2: MW Remind Tone 3: Ring LED + Tone | MW REMIND TONE |
| BGM | Enables background music. The BGM is played while the phone is idle. | No BGM Internal Music External Music VMIB MOH1 VMIB MOH2 VMIB MOH3 VMIB MOH4 (MG 300 Only) SLT MOH1 SLT MOH2 SLT MOH3 SLT MOH4 SLT MOH5 | No BGM |

1.8.2 Station DN Attributes

Selecting Station DN Attributes will display the input entry page, Figure 1.8.2-1.

| Order | Attribute | Value | Range |
|-------|------------------------------------|--|------------------------|
| 1 | Station Name | <input type="text"/> | MAX 16 Characters |
| 2 | Password | <input type="text" value="1"/> | MAX 12 Digits(0-9) |
| 3 | DND | OFF <input type="button" value="v"/> | |
| 4 | Wake up Time | <input type="text"/> repeat <input type="checkbox"/> | HHMM(Must be 4 digits) |
| | Attendant Wake up Time | station range <input type="text"/> - <input type="text"/> time <input type="text"/> repeat <input type="checkbox"/> | HHMM(Must be 4 digits) |
| 5 | VMIB New Message No | 000 | |
| 6 | VMIB Saved Message No | 000 | |
| 7 | VM MSG - SMTP Mail Server Address | <input type="text"/> | |
| 8 | VM MSG - User Mail Address | <input type="text"/> | |
| 9 | VM MSG - SMTP Mail Server ID | <input type="text"/> | |
| 10 | VM MSG - SMTP Mail Server Password | <input type="text"/> | |

Figure 1.8.2-1 Station DN Attributes

Station Directory Number Attributes define features and functions available to the station directory number.

Table 1.8.2-1 Station Directory Number Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------------------|---|---------------|---------|
| Station Name | Enables user name entry. The name is displayed on the LCD of Digital Phones. | Max. 16 Chars | - |
| Password | Password is employed to control access to the system resources and facilities. Walking COS, CO/IP Group access DISA callers and certain Call Forward types may require the input of a valid password. | 0-12 digits | - |
| DND | Activate or deactivate DND. | OFF/ON | OFF |
| Wakeup Time | Assign Wakeup Time. | | - |
| Attendant Wakeup Time | If attendant, assign other station's wakeup time. | | - |
| VMIB Urgent Message No | Displays the number of urgent messages. | 0 ~ 250 | 0 |
| VMIB New Message No | Displays the number of new messages. | 0 ~ 250 | 0 |
| VMIB Saved Message No | Displays the number of saved messages. | 0 ~ 250 | 0 |
| VM MSG-SMTP Mail Server Address | SMTP Mail Server Address. | IP address | - |
| VM MSG-User Mail Address | User Mail Address that will receive the e-mail. | IP address | - |
| VM MSG-SMTP Mail Server ID | SMTP Mail Server ID | Max. 20 | - |
| VM MSG - SMTP Mail Server Password | SMTP Mail Server Password. | Max. 20 | - |
| VM MSG - SMTP Mail Sender Address | Sender Mail Address that will be put in the sender's address field in the e-mail. | Max. 48 | |

1.8.3 Call Forward

Selecting Call Forward will display the input entry page, Figure 1.8.3-1.

The screenshot shows the iPECS STA 1000 web interface. The left sidebar contains the following navigation links: Station 1000 Program, Station Port Attributes, Station DN Attributes, Call Forward (highlighted), Pre Select Message, Station Speed Dial, Station Flexible Buttons, Station ICLID, Mobile Extension Attributes, Send Internal SMS, ACD Group Management, ACD Group Call Traffic, User Guide, and Log Out. The main content area is divided into two sections. The top section, titled '[Station Call Forward]', contains a table with 5 rows and 3 columns: Order, Attribute, and Value. The bottom section, titled '[Preset Call Forward]', contains a table with 6 rows and 3 columns: Order, Call Forward Type, and Destination Number. Both sections have a 'Save' button at the bottom.

| Order | Attribute | Value |
|-------|-----------------------------|--------------|
| 1 | Forward Type | NOT ASSIGNED |
| 2 | Forward Number | 1002 |
| 3 | Forward Apply Time | ALL |
| 4 | CFW No-Answer Timer (0~600) | 15 (*sec) |
| 5 | Forward Information Display | ON |

| Order | Call Forward Type | Destination Number |
|-------|------------------------|--------------------|
| 1 | Internal Unconditional | |
| 2 | Internal Busy | |
| 3 | Internal No-Answer | |
| 4 | External Unconditional | |
| 5 | External Busy | |
| 6 | External No-Answer | |

Figure 1.8.3-1 Call Forward

1.8.3.1 Station Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a station, station group or external number.

Table 1.8.3.1-1 Station Call Forward

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-----------------------------|--|--|--------------|
| Forward Type | Specify call forward type. | 0: Not Assigned 1: Unconditional / 2: Busy 3: No Answer / 4: Busy or No Answer | Not Assigned |
| Forward Number | Specify Call Forward Destination by entering dial digits. | Max. 32 digits | - |
| Forward Apply Time | Specify Call Forward Applying Time. | 0: All / 1: Day 2: Night / 3: Timed | ALL |
| CFW No-Answer Timer | Call is forwarded to 'Call Forward Destination,' if station does not respond during this 'CFW NO ANS TMR' timer. | (0-600) sec | 15sec |
| Forward Information Display | Enables Forward Display Option to check forward information in idle state. | 0: OFF 1: ON | ON |

1.8.3.2 Preset Call Forward

Selecting Preset Call Forward will display the input entry page, Figure 1.8.3.2-1.

The screenshot shows the iPECS web interface. The top navigation bar includes 'Administration', 'S/W Upgrade', 'System Management', and 'Log Out'. The left sidebar lists various configuration categories, with 'Station Number Data' expanded to show 'Preset Call Forward(142)[N]'. The main content area is titled '[Preset Call Forward]' and contains a form for configuring call forwarding. It includes a 'Station Range' field set to '100 to 100', a 'Check All' button, and a table with columns 'Call Forward Type' and 'Destination Number'. The table lists six types: Internal Unconditional, Internal Busy, Internal No-Answer, External Unconditional, External Busy, and External No-Answer, each with a checkbox and a text input field for the destination number. Buttons for 'Load', 'Overview', and 'Save' are also present.

Figure 1.8.3.2-1 Preset Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset station or station group. This allows an external call or internal call to initially ring at a station and forward to a pre-determined destination. Preset Forward can be separately assigned Internal Unconditional, Internal Busy, Internal No Answer, External Unconditional, External Busy or External No Answer preset forwarding to any station, station group or external number.

Table 1.8.3.2-1 Preset Call Forward

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|------------------------|---|---------------|---------|
| Internal Unconditional | The unconditional preset forward destination of internal (intercom) call. | Max 32 digits | |
| Internal Busy | The busy preset forward destination of internal (intercom) call. | Max 32 digits | |
| Internal No-Answer | The no-answer preset forward destination of internal (intercom) call. | Max 32 digits | |
| External Unconditional | The unconditional preset forward destination of external call. | Max 32 digits | |
| External Busy | The busy preset forward destination of external call. | Max 32 digits | |
| External No-Answer | The no-answer preset forward destination of external call. | Max 32 digits | |

1.8.4 Pre-selected Message

Selecting Pre-selected Message will display the input entry page, Figure 1.8.4-1.

| Index | Message | Attribute | Range |
|-------|------------------------------|----------------------|--------------------------|
| C # | MESSAGE DEACTIVATED | | |
| C * | STATION CUSTOM MESSAGE | <input type="text"/> | Max 16 Characters |
| C 1 | LUNCH RETURN AT TIME | <input type="text"/> | HH:MM (Must be 4 Digits) |
| C 2 | ON VACATION RETURN AT DATE | <input type="text"/> | DD:MM (Must be 4 Digits) |
| C 3 | OUT OF OFFICE RETURN AT TIME | <input type="text"/> | HH:MM (Must be 4 Digits) |
| C 4 | OUT OF OFFICE RETURN AT DATE | <input type="text"/> | DD:MM (Must be 4 Digits) |
| C 5 | OUT OF OFFICE RETURN UNKNOWN | | |
| C 6 | CALL TO STATION | <input type="text"/> | Phone Number |
| C 7 | IN OFFICE STATION | <input type="text"/> | Station Number |
| C 8 | IN A MEETING TIME | <input type="text"/> | HH:MM (Must be 4 Digits) |
| C 9 | AT HOME | | |
| C 0 | AT BRANCH OFFICE | | |

Figure 1.8.4-1 Pre-selected Message

A user can select a message to be displayed on the LCD of a calling Digital Phone. There are ten pre-defined messages (index 1-0), several allow for auxiliary information such as a time, date or number.

A user may activate Custom Display Messaging to send a custom text message to the LCD of a calling Phone.

1.8.5 Station Speed Dial

Selecting Station Speed Dial will display the input entry page, Figure 1.8.5-1.

| Order | Dial Digit (Max 32) | Name (Max 16) | Differential Ring |
|-------|---------------------|---------------|-------------------|
| 0 | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

Figure 1.8.5-1 Station Speed Dial

Each station can store commonly dialed numbers for easy access using Station Speed Dial bins. Each station has access to 50 Speed Dial numbers. Each Speed Dial number can be up to 32 characters in length and may include special instruction codes for analog and ISDN lines. Additionally speed dial name can be entered and Differential Ring type that is used when incoming call's CLI matches this speed dial digits can be assigned here.

1.8.6 Flex Buttons

Selecting Station Flex Buttons will display the input entry page, Figure 1.8.6-1.

STA 1000

Station 1000 Program [Flex Button Assignment]

Flex Button Order : [1-48][49-96][97-144][145-192][193-240] Save

| Check All | Button | Type | Value | Ring Option | Access Type |
|--------------------------|--------|-----------------------------|---------|----------------|-----------------|
| <input type="checkbox"/> | 1 | Loop_key | | | User-Changeable |
| <input type="checkbox"/> | 2 | Loop_key | | | User-Changeable |
| <input type="checkbox"/> | 3 | Directory Number | 1000 | Immediate Ring | All Call |
| <input type="checkbox"/> | 4 | Not Assigned | | | |
| <input type="checkbox"/> | 5 | Not Assigned | 1400 | | User-Changeable |
| <input type="checkbox"/> | 6 | Station DSS CO Number | 5371003 | | User-Changeable |
| <input type="checkbox"/> | 7 | Loop_key CO Group Access | 5371400 | | User-Changeable |
| <input type="checkbox"/> | 8 | Station Group Number | | | |
| <input type="checkbox"/> | 9 | ACD Group Number | | | |
| <input type="checkbox"/> | 10 | Dial Number | | | |
| <input type="checkbox"/> | 11 | Directory Number | | | |
| <input type="checkbox"/> | 12 | REDIAL | | | |
| <input type="checkbox"/> | 13 | SPEED | | | |
| <input type="checkbox"/> | 14 | CONFERENCE | | | |
| <input type="checkbox"/> | 15 | MUTE | | | |
| <input type="checkbox"/> | 16 | CALL BACK | #*1 | | User-Changeable |
| <input type="checkbox"/> | 17 | DND/FWD | | | |
| <input type="checkbox"/> | 18 | TRANSFER | | | |
| <input type="checkbox"/> | 19 | FLASH | | | |
| <input type="checkbox"/> | 20 | PTT | | | |
| <input type="checkbox"/> | 21 | Not Assigned | | | |
| <input type="checkbox"/> | 22 | Not Assigned | | | |
| <input type="checkbox"/> | 23 | Not Assigned | | | |
| <input type="checkbox"/> | 24 | Not Assigned | | | |

Figure 1.8.6-1 Flex Buttons

Each Flex button for each Phone/DSS Console can be assigned a function (TYPE) from the pull down menu as shown Table 1.8.7-1. After selecting the Type for a button, enter the value, if required.

Table 1.8.6-1 Flex Button Type & Value

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|-------------|--|-------|---------|
| Type | <p>Select button type from available choices:</p> <p>Not Assigned</p> <p>Station DSS: assign station DSS button</p> <p>CO Number: assign CO line button</p> <p>Loop key: assign Loop Key</p> <p>CO Group Access: assign CO Group Access Code</p> <p>Station Group Number: assign station Group Number</p> <p>ACD Group Number: assign ACD Group.</p> <p>Dial Number: assign feature code or digits</p> <p>Directory Number: assign Directory Number</p> <p>REDIAL: assign [REDIAL] button</p> <p>SPEED: assign [SPEED] button</p> <p>CONFERENCE: assign [REDIAL] button</p> <p>MUTE: assign [MUTE] button</p> <p>CALL BACK: assign [CALL BK] button</p> <p>DND/FWD: assign [DND/FORWARD] button</p> <p>TRANSFER: assign [TRANSFER] button</p> <p>FLASH: assign [FLASH] button</p> <p>PTT: assign [PTT] button</p> | | |
| Value | <p>Station Number if button is 'Directory Number' type.</p> <p>Dial digit in other cases.</p> | | |
| Ring Option | The Ring Option of Directory Number (Station Number) | | |
| Access type | <p>Determines Directory Number (Station Number) access type if button is 'Directory Number' type.</p> <p>0. All call: there is no restriction.</p> <p>1. Dial After Seizure: Unable to seize only by off-hook when making outgoing calls even if the button is set to prime number button.</p> <p>2. Incoming only: Unable to make an outgoing call using this button and only answering incoming call is allowed. Or, Button Assignment privilege at the station if button is 'Dial Number' type.</p> | | |
| Name | Button Name | | |

1.8.7 Station ICLID

Selecting Station ICLID will display the input entry page, Figure 1.8.7-1.

The screenshot shows the iPECS web administration interface. At the top, the iPECS logo is on the left, and 'STA 1000' is on the right. Below the logo, there's a sidebar menu with various options. The 'Station ICLID' option is highlighted in orange. The main content area is titled '[Station ICLID Table]'. It contains a table with three columns: 'Order', 'ICLID (Max 24 Digits)', and 'Routing Destination (Max 8 Digits)'. The table has 10 rows, numbered 1 to 10. Each row has input fields for the ICLID and the Routing Destination. A 'Save' button is located at the top right of the table.

| Order | ICLID (Max 24 Digits) | Routing Destination (Max 8 Digits) |
|-------|--------------------------|---------------------------------------|
| 1 | <input type="text"/> | <input type="text"/> |
| 2 | <input type="text"/> | <input type="text"/> |
| 3 | <input type="text"/> | <input type="text"/> |
| 4 | <input type="text"/> | <input type="text"/> |
| 5 | <input type="text"/> | <input type="text"/> |
| 6 | <input type="text"/> | <input type="text"/> |
| 7 | <input type="text"/> | <input type="text"/> |
| 8 | <input type="text"/> | <input type="text"/> |
| 9 | <input type="text"/> | <input type="text"/> |
| 10 | <input type="text"/> | <input type="text"/> |

Figure 1.8.7-1 Station ICLID

Each station can assign specific CLI to route other destination.

1.8.8 Mobile Extension Attribute

Selecting Mobile Extension Attributes displays the input entry page, Figure 1.8.8-1.

The screenshot shows the iPECS web interface for STA 1000. The left sidebar contains a menu with 'Mobile Extension Attributes' highlighted. The main area is titled '[Station Mobile Extension Attributes]' and contains a table with columns: Ext. ID, Mobile Enable, Number, and CLI. There are two rows for Ext. ID 1 and 2, both with 'Mobile Enable' set to 'OFF'. Below the table is a section titled 'Mobile Extension Service Mode & CLI' with a 'Mobile Service Mode' dropdown set to 'ALL Call' and five input fields for 'Mobile Service CLI 1' through 'Mobile Service CLI 5'. A 'Save' button is located in the top right corner of the main area.

Figure 1.8.8-1 Mobile Extension Attributes

A mobile phone can be used in conjunction with a station. The Mobile phone can access system resources available to the user's wired phone and will receive ringing for incoming calls. The user may be allowed to enable the Mobile extension and define the mobile number.

Table 1.8.8-1 Mobile Phone Attributes

| ATTRIBUTE | DESCRIPTION | RANGE | DEFAULT |
|--------------------------|----------------------------------|---|----------|
| EXT. ID | Mobile phone index | | |
| Mobile enable | Enable mobile extension ability. | 0: OFF 1: ON | OFF |
| Number | Mobile extension number | Max. 24 digits | - |
| CLI | Mobile extension CLI number | Max. 24 digits | - |
| Mobile Service Mode | Select mobile service mode. | 0 (All Call): Apply mobile service to all calls 1 (Service CLI only): Apply mobile service to the calls of which the CLI matches to one of the CLI's in CLI1~CLI5. | All Call |
| Mobile Service CLI (1-5) | CLI for Mobile Service | | |

1.8.9 Internal SMS

Selecting Send Internal SMS displays the input entry page, Figure 1.8.9-1.

The screenshot displays the iPECS web administration interface. On the left is a vertical navigation menu with the following items: Station 1000 Program (highlighted in orange), Station Port Attributes, Station DN Attributes, Call Forward, Pre Select Message, Station Speed Dial, Station Flexible Buttons, Station ICLID, Mobile Extension Attributes, Send Internal SMS (highlighted in orange), ACD Group Management, ACD Group Call Traffic, User Guide, and Log Out. The main content area has a header bar with the iPECS logo and 'STA 1000'. Below the header, the title '[Send SMS]' is shown. The configuration form includes a 'Station Range' field with two input boxes separated by a hyphen, a 'Message(Max 100 char)' text area with up and down arrows, and a 'Save' button at the bottom.

Figure 1.8.9-1 Internal SMS

1.8.10 ACD Group Management

Only ACD supervisor can access this page. If a station is ACD supervisor then selecting ACD Group Management displays the input entry page, Figure 1.8.10 -1.

Station 1000 Program

[ACD Group Attributes - Group Number:600]

| Order | Attribute | Value | Range |
|-------|-------------------------------------|--------------|-------|
| 1 | Group Forward Destination | N/A | |
| 2 | Night Service | Release Call | |
| 2 | Night Forward Destination | N/A | |
| 3 | Holiday Service | Release Call | |
| 3 | Holiday Forward Destination | N/A | |
| 4 | Overflow Service | Release Call | |
| 4 | Overflow Forward Destination | N/A | |
| 5 | Max Queuing Count | 10 | 0-99 |
| 5 | Forward Service After Queuing | Release Call | |
| 5 | Forward Destination After Queuing | N/A | |
| 6 | Agent No-Answer Service | Not Use | |
| 6 | Agent No-Answer Forward Destination | N/A | |

[ACD Group Member Status - Group Number:600]

| Check All | Order | Station Number | Log-In/Log-Out | Log-In Status | Priority |
|--------------------------|-------|----------------|----------------|------------------|----------|
| <input type="checkbox"/> | 1 | 1005 | Log-Out | Agent Not Log-In | 10 |

Figure 1.8.10-1 ACD Group Management


Table 1.8.10-1 ACD Group Management

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|---------------------------|---|--|--------------|
| Group Forward Destination | When ACD Group status is Group Forward Status, all the ACD calls will be forwarded to the assigned destination. | N/A Station Number Station Group ACD Group Digits | N/A |
| Night Service | This entry defines how to reroute ACD call when group status is Night Status. | 0: Release Call Night 1: Announcement Service 2: Forward Destination | Release Call |
| Night Forward Destination | Specify the Night Service Forward Destination of an ACD group If Night Service type is Forward, calls will be diverted to forward destination in Night Service mode. | N/A Station Number Station Group ACD Group Digits | N/A |
| Holiday Service | This entry defines how to reroute ACD call when group status is Holiday Status. | 0: Release Call Night 1: Announcement Service 2: Forward Destination | Release Call |

| ATTRIBUTE/DISPLAY | DESCRIPTION | RANGE | DEFAULT |
|-------------------------------------|--|--|--------------|
| Holiday Forward Destination | Specify the Holiday Service Forward Destination of an ACD group If Holiday Service type is Forward, calls will be diverted to forward destination in Holiday Service mode. | N/A Station Number Station Group ACD Group Digits | N/A |
| Overflow Service | This entry defines how to remote ACD call when group status is Overflow Status. | 0: Release Call Night 1: Announcement Service 2: Forward Destination | Release Call |
| Overflow Forward Destination | Specify the Overflow Service Forward Destination of an ACD group If Overflow Service type is Forward, calls will be diverted to forward destination in Overflow Service mode. | N/A Station Number Station Group ACD Group Digits | N/A |
| MAX Queuing Count | This entry defines MAX queuing call count. If the queued ACD Call count is greater than the max q-count, ACD group state will be changed to Overflow Status. | 0 – 99 | 10 |
| Forward Service After Queuing | This entry defines reroute usage after queuing time over. | 0: Release Call 1: Forward Destination | Release Call |
| Forward Destination After Queuing | Reroute destination after queuing time expiration. | N/A Station Number Station Group ACD Group Digits | N/A |
| Agent No-Answer Service | This entry defines no-answer Agent case about ACD-call, 1: Not use. 2: Forward Call to No-Answer Forward Destination: call will be forwarded to defined destination. 3: Agent DND State Change: Agent state will be changed automatically to DND state. 4: Agent DND State Change & Forward Call: Agent state will be scanned to DND state, and ACD call will be forwarded to defined destination. | 0: Not use 1: Forward Call to No-Answer Forward Destination 2: Agent DND state Change 3: Agent DND State Change & Forward Call. | Not use |
| Agent No-Answer Forward Destination | When Agent No-Answer option is Forward, applied destination can be assigned. | 0: N/A 1: Station Number 2: Station Group 3: ACD Group 4: Digits | N/A |

1.8.11 ACD Group Call Traffic

Only ACD supervisor can access this page. If a station is ACD supervisor then Selecting ACD Group Call Traffic displays the page shown, Figure 1.8.11-1. For detailed explanation, refer to iPECS-MG Feature and Operation manual Section 10. 10 ACD Group Call Traffic.



STA 1000

Station 1000 Program

- Station Port Attributes
- Station DN Attributes
- Call Forward
- Pre Select Message
- Station Speed Dial
- Station Flexible Buttons
- Station ICLID
- Mobile Extension Attributes
- Send Internal SMS
- ACD Group Management
- ACD Group Call Traffic**
- User Guide
- Log Out

[ACD Group Call Traffic – Group Number:600]

| Order | Category | Value |
|-------|---------------------------|--------------------|
| 1 | Group Total Calls | 4 |
| 2 | Group Unanswered Calls | 1 |
| 3 | All Agent Busy Count | 0 |
| 4 | Average Ringing Time | 00min 00sec |
| 5 | Average Service Time | 01min 21sec |
| 6 | Total All Agent Busy Time | 00hour 00min 00sec |
| 7 | Calls In Queue in Current | 0 |
| 8 | Longest Queued Call Time | 00min 00sec |
| 9 | Average Queued Call Time | 00min 00sec |

Delete

[ACD Agent Traffic – Group Number:600]

| Order | Station Number | Total Calls | Unanswered Calls | Average Ringing Time | Average Service Time | Last Log-In Time |
|-------|----------------|-------------|------------------|----------------------|----------------------|---------------------|
| 1 | 1005 | 0 | 0 | 00min 00sec | 00min 00sec | 00/00/00 - 00:00:00 |

Delete

Figure 1.8.11-1 ACD Group Call Traffic

1.8.12 Station Logout

Selecting Logout will terminate the Station Program session and return the Station Program entry page shown in Section 1.2.3.



Figure 1.8.12-1 Station Logout