

**User Guide** 

iPECS is an Ericsson-LG brand





## **Revision History**

Issue	Date	Remark
1.0	Dec. 2011	Initial Release
1.1	Oct. 2012	Changed CI to Ericsson-LG
1.2	Dec. 2013	Changed Ericsson-LG to Ericsson-LG Enterprise



## Disposal of your old appliance

1. When the crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2012/19/EC.

2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by government or the local authorities.

The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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## Important Safety Information

To prevent unexpected danger or damage please read this information before installing or attempting to repair you phone. Warning and Caution information is provided to alert the consumer of known dangers:



**Warning:** To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as a bathroom, swimming area, etc. **Caution:** Use only Ericsson-LG Enterprise approved batteries and desktop chargers to avoid the damage to the phone. Using other batteries or chargers voids your warranty and may cause an explosion.

#### Warning

- 1. Only trained and qualified service personnel shall install, replace or service the phone.
- 2. Do not spill liquid life water on the phone. If so, call the service center as this may result in fire or electric shock.
- 3. If you see smoke or smell something during use, unplug the power cord and the phone line. Call the service center immediately.
- 4. If the power adapter is used, do not touch the plug with wet hands. This may result in a fire or an electric shock or equipment damage.
- 5. Do not use the phone during a thunderstorm. Lightning strike may result in fire, severe electrical or acoustic shock.
- 6. Do not use the power adapter if the power cord or wall outlet is damaged. This may result in fire or an electric shock.

### Caution

- 1. Ensure that children do not pull on phone cords. This may injure children or result in equipment damage.
- 2. The ear-piece houses a magnetic device which may attract pins or small metal objects. Keep headset clear of such objects and check before use.
- 3. Avoid placing the phone in an area that is excessively dusty, damp or subject to vibration.
- 4. Choose a site for the phone that is well-ventilated and dry.
- 5. Do not plug multiple plug-packs into one power outlet. This may result in the plug overheating and may result in a fire or plug pack failure.
- 6. Do not put heavy things on the phone.
- 7. Do not drop or throw the phone.
- 8. Static electricity discharge will damage electronic components.
- 9. Keep out of direct sunlight and away from heat.
- 10. No user-serviceable parts inside. Do not insert a screwdriver or any metal objects into the phone. This may cause electric shock or damage the equipment and will render the warranty void.
- 11. Clean the phone with a soft, dry cloth only. Do not use volatile liquids such as petrol, alcohol, or acetone as this may cause a fire or result in discoloration or damage to plastics. Do not clean with wax or silicon products as these may enter the equipment and cause operation to become unstable.

## [EU]

### **European Union Declarations of Conformity**

Ericsson-LG Enterprise Co., Ltd. declare that the equipment specified in this document bearing the "CE" mark conforms to the European Union Radio and Telecommunications Terminal Equipment Directive(R&TTE 1999/5/EC), including the Electromagnetic Compatibility Directive(2004/108/EC) and Low Voltage Directive(2006/95/EC).

Copies of these Declarations of Conformity (DoCs) can be obtained by contacting your local sales representative.

## [USA/CSA]

### FCC/IC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 /RSS-GEN of the FCC/IC rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference; and (2) This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations.

**CAUTION :** Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## 1. Introduction

#### 1.1 General

Your telephone is connected to an advancedtechnology, highly-versatile, fully-featured telecom system designed to make office communications easy and productive. Employing state-of-the-art Voice over Internet Protocol (VoIP) technology, voice and data converge on a single IP packet network. Because each iPECS Phone is an IP appliance, it can be moved easily throughout the office LAN and maintain normal operation.

#### 1.2 Feature Information

We have taken every effort to make this user guide simple and straightforward. The guide starts with the simpler operations of the iPECS Phone, and moves on to receiving and placing calls, and then to more advanced features. Each section includes a brief and basic description of each feature and step-by-step operation instructions.

The operations shown in this guide use the System's base default Numbering Plan. Your specific Numbering Plan may be different. Some features may not be available for you to access or may be subject to certain limitations based on the set-up of the System (refer to your System.

Under certain operation conditions, this equipment cannot be relied upon to make emergency calls (loss of power, etc.). Alternative arrangements should be made for access to emergency services.

#### 1.3 Feature Groupings

Every effort has been taken to divide the features into a logical and consistent sequence so that features can be quickly located.

Features have been divided into groups, *Receiving calls*, *Placing calls* etc. Within each group, features are arranged according to the difficulty of operation and frequency of use.

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#### 1.4 iPECS LIP-8002E/2AE Phone Description

The iPECS LIP-8002E/2AE Phone incorporates the latest in VoIP technology and is intended for basic communications (ex., a lobby or limited use phone). The following image shows the LIP-8002E/2AE.

Features are generally accessed using programmed *fixed*, or *flexible buttons*, dial pad buttons, or dial codes entered from the dial pad. In the remainder of this User Guide, the Fixed or Flexible buttons are shown with a box surrounding the **BUTTON** designation. The following image shows the phone with button descriptions.



iPECS LIP-8002E/2AE Diagram

**DND** – Blocks all incoming calls.

**Speed** – Access speed dialing, speed programming.

**Vol**  $\blacktriangle$  – Adjusts volume for ringing and speakerphone; adjusts LCD brightness.

**Trans/PGM** – Call transfer, or programming mode.

**Hold** – Places active call on hold or saves programming information.

**Call Back** – Initiates call back request when calling a busy station; call is completed when busy station returns to idle status.

**Speaker** – Allows User to place a call while on-hook. Toggle to activate.

**Flexible** – Some are system pre-programmed for line appearance, and some are user programmable.

**Ring/MSG Indicator** – Illuminates when ringing, or message waiting.

**LCD Display** – Phone interface for status, dialing directories, and text message information.

**Hands-free Microphone** – Used for hands-free speakerphone function.

Note: LIP-8002E/2AE does not support the exclusive use of Headset port.

#### 1.5 LIP-8002E/2AE Phone Installation

The LIP-8002E/2AE can be connected to any standard 10/100 Base-T Ethernet switch port. When the LIP-8002AE is connected to an 802.3af compliant switch port (ex., POE8), The LIP-8002E/2AE obtains power from the Ethernet port. When LAN power is available, do not use AC/DC adaptor. When LAN power is not available, the AC/DC adaptor must be used. The following image shows how to connect the handset, power cord, and LAN cable to the phone.(The LIP-8002AE isn't support PoE and can use only the supplied adaptor)

#### 1.5.1 Wiring Connectors

The LIP-8002E/2AE has a two Ethernet ports one is connected to the LAN using a RJ-45 plug terminated category 5 cable supplied with the Phone, the other can be connected to a desktop PC. Using the cable, one RJ-45 plug is inserted into the "LAN" jack. The other RJ-45 plug is inserted into the RJ-45 jack previously wired to an Ethernet switch port accessible by the iPECS system. To power the LIP Phone over the LAN, the switch port must support POE (Power over Ethernet) standard 802.3af.

#### 1.5.2 Power

The LIP-8002E/2AE can be powered by the AC/DC Adapter-K- (5 V @0.7A) or over the LAN cable using the POE8 or other 802.3af compliant switch. (The LIP-8002AE isn't support PoE and can use only the supplied adaptor)

If using the AC/DC Adapter, after connecting the Phone to the LAN, the Adapter's DC voltage plug is inserted into the power-input jack in the underside of the Phone. One end of the AC power cord is inserted into the mating receptacle of the AC Adapter, and the other end is inserted into the AC power outlet.

#### 1.5.3 Wall Mount

The LIP-8002E/2AE can be wall mounted as needed. The following instructions detail how to perform a wall mount installation:

- Mark and drill two (2) 7mm holes for plastic wall anchors.
- Insert the two (2) anchors into the holes and insert and tighten each screw leaving about 2.5 mm (1/8-inch) of the screw exposed.
- Slide the LIP-8002E/2AE over the screws and assure the phone is secure.
- NOTE—It may be necessary to remove the phone and tighten or loosen the screws for a secure mounting.
- For the wall-mounting, sleeve of the CAT5 cable should be moved backward to prevent it protrude.

2. Receiving Calls

#### 2.1 Answering a Call While Idle

There are 3 basic types of incoming calls; internal/external calls, **Intercom Voice Announce** calls, and *Hold* recalls.

Your phone may be assigned **Ringing Line Preference**; in this case, calls that ring are answered by lifting the handset. Otherwise, you must press the flashing Flex button.

External calls are from CO lines or VoIP channels that are programmed to ring at your phone. For external calls, **Delay Ring** may be assigned allowing others to answer the call before the call rings at your phone.

Calls can be forwarded in some manner from another user; if providing call coverage for other users, you may also receive **Station Call Coverage** calls.

Calls placed on **Hold**, including Transfers, parked calls, etc., will **Recall** if left on hold for too long.

ICM Voice Announce calls are answered based on the ICM Signaling mode at the receiving phone; in Hands-Free (HF) mode, after the splash tone and announcement, speak normally into the microphone. In the Privacy (PV) mode, lift the handset to respond. The ICM Signaling mode can be assigned in *Station Programming*.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To answer a call ringing at your phone:

• Lift the handset, the call will be connected.

#### To respond to an Intercom Voice Announce call:

• Lift the handset to respond.

#### 2.2 Responding to a Call While Busy

While you are busy on another call, you may receive a Muted Ring, Camp-On tones, or Voice-Over announcements. Muted Ring is provided over the speaker of your Phone indicating a **Call Waiting**. You also may receive **Camp On** tones, a burst of tone on top

of the existing call, as an indication of another call waiting.

While busy, certain stations can activate **Voice-Over** to your phone. When used audio is received from both the active call and the **Voice-Over** announcement.

Respond to any of these Off-hook Signals by: placing the existing call on Hold and responding to the new incoming call, activating *One-time DND*.

#### To answer a Call Waiting:

- Press HOLD, and/or
- Press the FLEX button.

#### To active One-time DND:

• Press the DND button.

#### 2.3 Differential Ring Signals

When multiple phones in a small area ring, it can be difficult to tell which are ringing. The iPECS Phone has 8 Ring Tones available for differentiating one phone's ringing from another. Four of the tones are stored in the phone permanent memory; the remaining four tones are in the system memory. Four of these eight can be downloaded into the phone memory for use as the 5<sup>th</sup> to 8<sup>th</sup> Ring Tone.

#### In iPECS-LIK

#### To download a Ring Tone from System memory:

- Press TRANS/PGM,
- Dial 1 for Ring Tones,
- Dial 5 for Ring Tone download,
- Dial the phone's memory location to receive the tone (5-8),
- Dial 0-9 for the desired tone number; a sample tone is played downloading the selected one.
- Press HOLD to download and a confirmation tone is heard.

#### To select a Ring Tone from phone memory:

- Press the TRANS/PGM button,
- Dial 1 for Ring Tones,
- Dial 1 or 2 for Internal or External ring,
- Dial 1-8 for the desired tone number; a sample tone is heard,
- Press HOLD to make the selection

#### In iPECS-MG

#### To download a Ring Tone from System memory:

- Press TRANS/PGM,
- Dial 2 for Ring Tones,
- Dial 3 for Ring Tone download,
- Dial the phone's memory location to receive the tone (5-8),
- Dial 0-9 for the desired tone number; a sample tone is played downloading the selected one.
- Press HOLD to download and a confirmation tone is heard.

#### To select a Ring Tone from phone memory:

- Press the TRANS/PGM button,
- Dial 2 for Ring Tones,
- Dial 1 or 2 for Internal or External ring,
- Dial 1-8 for the desired tone number; a sample tone is heard,
- Press HOLD to make the selection

#### 2.4 Answering Calls to Other Stations

When nearby stations are ringing, you may pick-up (answer) the call. Select to answer a call ringing at a specific station (**Directed Call Pick-Up**) or you may choose to answer the oldest call ringing to your station group (**Group Call Pick-Up**). Assign a Flex button with the Group Call Pick-Up code for one-touch access.

NOTE—Pick-Up will not answer calls on the ringing station Private Line unless the line appears on your phone.

#### To answer a call ringing at another station:

- Lift the handset,
- Dial Directed Call Pick-Up code,
- Dial the Intercom Number of the ringing station; call is connected.

#### To answer a call ringing at a station in your group:

- Lift the handset,
- Dial Group Call Pick-Up code, the call is connected.

#### 2.5 Using Do-Not-Disturb (DND) to Block Incoming Calls

Activate Do-Not-Disturb (DND) when you wish not to be interrupted by pressing the DND button; the phone will block incoming calls. Internal callers will receive a fast busy tone and the display will show the DND status. Activate Do-Not-Disturb while busy (One-Time DND); DND will be active only for the duration of the present call, and requires a DND button.

When an Executive activates DND, calls are forwarded to the paired Secretary automatically.

The Attendants and Secretary may be able to activate **DND Override** and **Intrude** on an active call. The Attendants may also cancel DND at other stations.

#### 2.6 Forwarding Calls

2.6.1 Forwarding calls to another station or Voice Mail

Incoming calls may be diverted to other resources of the system. Resources include other stations, Internal **Voice Mail** and **External Voice Mail**. Your LCD and the LCD of the forward receiver will both indicate the forward status.

Call Forward can be activated from your phone or from a different station (**Call Forward, Remote**). You may define the conditions or 'type of forward' as below:

- 1: Unconditional—All calls to the station, except recalls, are forwarded.
- 2: Busy—Immediately forwards all calls, except recalls, when the station is busy.
- 3: No Answer—Forwards all calls to the station, except recalls, when the station does not answer within the No Answer timer.
- 4: Busy/No Answer—Forwards calls if the station is busy or does not answer within the No Answer timer.

When you forward calls from a different station, you may need to enter your *Authorization Code* (station number and password).

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

## To activate Call Forward from your phone to another phone or internal system resource:

- Press SPEAKER on and DND button,
- Dial the type of forward code 1-4, 1= Unconditional, 2=Busy, 3=No Answer, 4=Busy/No Answer
- Dial the destination number.
- Press HOLD button or OK button to save.

#### To deactivate Call Forward from your phone:

- Press SPEAKER on,
- Press DND button
- Press the '#' key.

## To activate Call Forward for your phone from a different phone (Call Forward, Remote):

- Press SPEAKER on and DND button,
- Dial 0 (Remote Call Forward code),
- Dial your Authorization Code (Station number & Password),
- Dial the type of forward code 1-4,
- Dial the destination number,
- Press HOLD button or OK button to save.

#### To deactivate Call Forward, Remote:

- Press SPEAKER on,
- Press DND button,
- Dial 0 (Remote Call Forward code),
- Dial your Authorization Code (Station number & Password),
- Press the '#' key.

#### 2.6.2 Forwarding calls to an external number

Forward calls to an external CO/IP destination; calls can be forwarded from an internal station or a remote location. You may define the conditions or 'type of forward' as below:

1: Unconditional—All calls to the station, except recalls, are forwarded internally or externally.

- 2: Busy—Immediately forwards all calls to the station, except recalls, when station is busy.
- 3: No Answer—Forwards all calls to the station, except recalls, when the station does not answer within the No Answer timer.
- 4: Busy/No Answer—Forwards calls if the station is busy or does not answer within the No Answer timer.

When you forward calls from a different station or a remote location, you may need to enter your *Authorization Code* (station number and password). In addition, from a remote location, you must access the system through a *DISA* enabled CO line.

#### In iPECS-LIK, iPECS SBG-1000

## To activate Call Forward, Off Premise (forward to an external number) from your phone:

- Press SPEAKER on and DND button,
- Dial the type of forward code 1-4,
  1- Unconditional 2-Busy 3-No Answer 4
- 1= Unconditional, 2=Busy, 3=No Answer, 4=Busy/No Answer,
- Press SPEED,
- Dial Speed Dial bin number.

## To activate Call Forward, Off Premise (forward to an external number) from a different phone:

- Press SPEAKER on and DND button,
- Dial 0 (Remote Call Forward code),
- Dial your Authorization Code (Station number & Password),
- Dial the type of forward code 1-4, 1= Unconditional, 2=Busy, 3=No Answer, 4=Busy/No Answer,
- Press SPEED,
- Dial Speed Dial bin number.

## To activate Call Forward, Off Premise (forward to an external number) from a remote location:

- Dial the telephone number of a DISA assigned CO line,
- While receiving dial-tone, dial the Call Forward feature code,
- Dial your Authorization code (Station number & Password),
- Dial the type of forward code 6-9,
- Dial Speed Dial bin number.

#### In iPECS-MG

## To activate Call Forward, Off Premise (forward to an external number) from your phone:

- Press SPEAKER on and DND button,
- Dial the type of forward code 1-4, 1= Unconditional, 2=Busy, 3=No Answer, 4=Busy/No Answer,
- Dial Telephone number,
- Replace the handset, return to idle.

## To activate Call Forward, Off Premise (forward to an external number) from a different phone:

- Press SPEAKER on and DND button,
- Dial 0 (Remote Call Forward code),
- Dial your Authorization Code (Station number & Password),
- Dial the type of forward code 1-4, 1= Unconditional, 2=Busy, 3=No Answer, 4=Busy/No Answer,
- Dial Telephone number,
- Replace the handset, return to idle.

#### 2.6.3 Forwarding callers to a Text Message

Using an iPECS Phone, the system can be setup to return a 'Text Message' to callers. When calling your Station, Internal callers will automatically receive the selected message or you can send a text message you select in response to an internal call, **Silent Text Message**.

There are 11 **Custom Display Messages** each up to 24 characters. Ten can be assigned by the Attendant and one assigned by you, see *Station Speed Dial Character entry chart.* 

In addition, there are ten fixed Pre-defined Text Messages; some allow auxiliary input for time, date, etc. (as shown in message list).

Message 1:	LUNCH RETURN AT hh:mm
Message 2:	ON VACATION
U	RETURN AT DATE mm:dd
Message 3:	OUT OF OFFICE
U	RETURN AT TIME hh:mm
Message 4:	OUT OF OFFICE
Ũ	RETURN AT DATE mm:dd

Message 5:	OUT OF OFFICE
	RETURN UNKNOWN
Message 6:	CALL (enter up to 17 digits)
Message 7:	IN OFFICE STA xxxx
Message 8:	IN MEETING
	RETURN AT TIME hh:mm
Message 9:	AT HOME
Message 0:	AT BRANCH OFFICE
Message *:	User Custom Message
#:	Deactivate

#### In iPECS-LIK

#### To activate Custom or Pre-Defined Message Forward:

- Press TRANS/PGM,
- Dial User Program feature code 51,
- Dial the two-digits text Message code (01-10: Pre-Defined, 00: Customer),
- Dial any auxiliary input for messages 01-04 and 06-08,
- Press HOLD, forward confirmed.

#### To cancel activated Message:

- Press TRANS/PGM,
- Dial User Program feature code 51,
- Dial # and Press HOLD

#### To program the Station Custom Message (00) at your station:

- Press TRANS,
- Dial User Program feature code 52,
- Enter Message contents, up to 24 characters, using the following Character Entry Chart:

	Q - 11 Z - 12 13 1 - 10	A - 21 B - 22 C - 23 2 - 20	D - 31 E - 32 F - 33 3 - 30
	G – 41 H - 42 I - 43 4 - 40	J - 51 K - 52 L - 53 5 - 50	M - 61 N - 62 O - 63 6 - 60
	P - 71 R - 72 S - 73 Q - 7* 7 - 70	T - 81 U - 82 V - 83 8 - 80	W - 91 X - 92 Y - 93 Z - 9# 9 - 90
	Blank - *1 : - *2 , - *3	0-00	#
Press H	OLD, message	saved.	

#### In iPECS-MG

#### To activate Custom or Pre-Defined Message Forward:

- Press TRANS/PGM,
- Dial User Program feature code 41,
- Dial the one-digits text Message code(0-9),
- Dial any auxiliary input for messages 01-04 and 06-08,
- Press HOLD, forward confirmed.

#### To cancel activated Message:

- Press TRANS/PGM,
- Dial User Program feature code 41,
- Dial # and Press HOLD

#### To program the Station Custom Message (00) at your station:

- Press TRANS,
- Dial User Program feature code 42,
- Enter Message contents, up to 24 characters, using the following Character Entry Chart:

		Letter Type								
Dial Pad	Uppercase (ABC)			Lowercase(ABC)				Num		
button		Button depressions								
	1	2	3	4	1	2	3	4	1	
1	@	:	/	<	@	:	/	<	1	
2	А	В	С		а	b	С		2	
3	D	Е	F		d	е	f		3	
4	G	Н	I		g	h	i		4	
5	J	Κ	L		j	k			5	
6	М	Ν	0		m	n	0		6	
7	Р	Q	R	S	р	q	r	s	7	
8	Т	U	V		t	u	v		8	
9	W	Х	Y	Z	w	х	у	Z	9	
0		,	?	!		,	?	!	0	
*	*				*				*	
#	#				#				#	

## 3. Placing Calls

#### 3.1 Internal Calls

You can place calls to other stations in the system over the Intercom. The call will ring, or for an **ICM Voice Announce** call, a splash tone will be heard. Ring or Voice Announce is normally determined by settings at the called station but you may change this by dialing '#' after placing the call. By changing the mode, a ringing ICM call will allow Voice Announce.

You can assign a Flex button for **Direct Station Selection/Busy Lamp Field (DSS/BLF)**. The DSS/BLF button allows you to call another station with a single touch of the button.

When you go off-hook, you may connect to another station or system resource automatically. This **Prime Line Preference** may be immediate or delayed allowing you to take other actions during the delay. Otherwise, you may press another Flex button before going off-hook to override Prime Line Preference.

If you go off-hook and take no action, Intercom dial-tone will time-out, and after the **Howler tone** is received, your phone will be placed out-of-service in **Intercom Lock-Out**; you then must hang-up to return the phone to an idle state.

#### To place an Intercom call:

- Lift the handset,
- Dial the Intercom number of the desired station,
- When the call is answered or the Splash tone is heard, speak to the called party.

#### 3.1.1 Using Camp-On when calling a busy station

If the called party is busy, you may activate **Camp-On**, **Callback** or **Voice Over** at the station. **Camp-On** allows you to wait off-hook for the called station to answer. **Callback** allows you to hang-up, and when the busy station returns to an idle state, the system will call your Station; after you answer the callback, the system will call the previously busy station.

If you are the Attendant or Secretary, you may activate **Intrusion**. You may also use **Step Call**; dial the next station by dialing just the last digit of the Intercom number.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To Camp-On (wait off-hook) for a busy station:

- Call a busy station and press '\*',
- Wait for party to answer.

#### To Callback (wait on-hook) for a busy station:

• Press the CALL BACK button and hang-up.

#### To make a Voice Over announcement to a busy station:

• Press '#', and after the Splash tone is heard, begin speaking.

3.1.2 To leave a Message Wait

If the called user does not answer or is in DND mode, you may leave a **Message Wait**. The called user will receive a Message Wait indication; the MSG LED will flash.

#### To activate Message Waiting:

• Press the CALL BACK button and hang-up.

#### 3.2 External Calls

3.2.1 Placing external CO/VoIP calls

External calls are placed on DN buttons are accessed by a button on the iPECS Phone assigned as DN.

If **Least Cost Routing** is set-up, the number you dial will be analyzed and the system will place the call on the least expensive route.

You may be assigned **Dialing** and/or **CO/IP Line Access Restrictions**, in which case you will receive error tone if you attempt to dial or access a restricted number/CO/IP line. **CO/IP line** and **Class Of Service (COS)**, which establish dialing restrictions, may vary during Day and Night operation (**Day/Night COS**).

You may need to enter an *Authorization code* before placing calls, in which case you will receive a second dial tone.

#### To place an external call:

- Lift the Handset,
- Dial the CO access code,
- Dial the desired number.
  - 3.2.2 Waiting for the next available CO/IP line

If all the lines connected to your system are busy, you will receive an All Trunks Busy signal. You may request to be notified when a line becomes free.

#### To activate a queue if the selected/dialed line is busy:

- Select/dial a busy CO/IP line,
- Press the CALL BACK button,
- Return to an idle state by going on-hook; when the line becomes available, the Station will be notified with ringing.
  - 3.2.3 Account Codes: Tracking External calls for billing

In some cases, you or your company may desire to track calls for billing or other purposes. When an **Account Code** is entered, it is output from the system to a printer in the **SMDR** report. An **Account Code** Flex button can be programmed (refer to *Assigning features to Flex buttons*).

#### In iPECS-LIK

#### To enter an Account Code before the call:

- Lift the handset,
- Press the assigned Account Code button,
- Dial the Account Code (1-12 digits),
- Dial \*, Intercom dial tone is heard,
- Place the CO/IP call as normal.

#### To enter an Account Code during a call:

- Press the assigned Account Code button,
- Dial the Account Code (1-12 digits),
- Dial \*.

#### In iPECS-MG

#### To enter an Account Code before the call:

- Lift the handset,
- Dial 550,
- Dial the Account Code (1-12 digits),
- Dial \*, Intercom dial tone is heard,
- Place the CO/IP call as normal.
  - 3.2.4 To disable dialing from your phone

You can temporarily 'Lock' your phone by activating **Temporary COS**, which will disable dialing outside calls from the phone. To deactivate **Temporary COS** you must enter the Station's Authorization code.

#### In iPECS-LIK

#### To activate Temporary COS:

- Press TRANS/PGM,
- Dial Extension Class Down code (21),
- Press HOLD.

#### To deactivate Temporary COS:

- Press TRANS/PGM,
- Dial Extension Class Recover code (22),
- Dial your Authorization code (station number and code),
- Press HOLD.

#### In iPECS-MG

#### To activate Temporary COS:

- Press TRANS/PGM,
- Dial Extension Class Down code (31),
- Dial your Authorization code,
- Press HOLD.

#### To deactivate Temporary COS:

- Press TRANS/PGM,
- Dial Extension Class Recover code (32),

- Dial your Authorization code,
- Press HOLD.
  - 3.2.5 To temporarily override dialing restrictions at a phone Override the dialing restrictions at any phone by activating **Walking COS**. The **Walking COS** dialing restriction levels are applied for a single call only. For multiple calls, you will need to reactivate **Walking COS** or use the FLASH button to regain CO/IP dial-tone.

#### In iPECS-LIK

#### To activate Walking COS:

- Press TRANS/PGM,
- Dial User Program code 23,
- Dial your Authorization Code (Station number and password),
- Place call as normal.

#### In iPECS-MG

#### To activate Walking COS:

- Press TRANS/PGM,
- Dial User Program code 33,
- Dial your Authorization Code (Station number and password and \*),
- Place call as normal.

#### 3.3 Using Automated Dialing

3.3.1 Using Last Number Redial (LNR)

The last number dialed on an external call is automatically saved in the Last Number Redial (LNR) buffer.

#### In iPECS-LIK, iPECS SBG-1000

#### To dial the Last Number for an external call:

- Dial Last Number Redial code
  - Or
- Press SPEED button and "\*",
- Use Vol Up/Vol Down or Navigation buttons to select the desired number,
- Press HOLD.

#### In iPECS-MG

#### To dial the Last Number for an external call:

- Dial Redial code
  Or
- Press SPEED button and '\*'.

#### 3.3.2 Using and Entering Saved Number Dial

You may store the last number dialed on an external call to the **Saved Number Dial** buffer for convenient dialing at a later time. The Saved number is stored until a new number is saved.

#### In iPECS-LIK, iPECS SBG-1000

#### To place a call using Saved Number Dial:

- Lift the handset,
- Press SPEED.
- Dial #

#### To store a number in the Saved Number Dial:

• While on an outgoing external call, press SPEED twice.

#### In iPECS-MG

To place a call using Saved Number Dial:

- Lift the handset,
- Press SPEED.
- Dial #

#### To store a number in the Saved Number Dial:

- While on an outgoing external call, press SPEED twice.
  - 3.3.3 Using System Speed Dial Numbers

The iPECS-CM system has 3000 **System Speed Dial** numbers. The iPECS SBG-1000 & Micro & 50 & 100 system has 800 **System Speed Dial** numbers. The iPECS-300 has 3000 **System Speed Dial** numbers. The iPECS-600 system has 6000 **System Speed Dial** numbers. The iPECS-1200 system has 12000 **System Speed Dial** numbers. You may, if allowed, use **System Speed Dial** to call frequently dialed numbers.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To place a call using System Speed Dial Bin:

- Press SPEED button,
- Dial the desired System Speed dial bin number (200-999 for iPECS SBG-1000 & Micro & 50 & 100, 2000-4999 for iPECS-300, 2000-7999 for iPECS-600, 20000-31999 for iPECS-12000, 2000-2999 for iPECs-MG100, or 2000-3999 for iPECS-MG300).
   Or
- Press the assigned System Speed Dial button.
  - 3.3.4 Using and Entering Station Speed Dial Numbers Each station in the iPECS-CM System is allocated memory for 100 Station Speed Dial numbers. The iPECS SBG-1000 & Micro & 50 & 100 support 20 Station Speed Dial numbers. The iPECS-300 & 600 & 1200 support 100 Station Speed Dial numbers.

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You can easily program each speed dial bin with telephone numbers, up to 23 digits, to meet your needs. The numbers may include several 'special' instructions:

**PAUSE** will momentarily stop dialing.

**FLASH** as 1<sup>st</sup> digit—Activate dial tone detect.

FLASH not as 1<sup>st</sup> digit—The system will generate a *flash on the CO line*.

When entering a **Speed Dial**, a 16 character name may be associated with the number for **Dial by Name**.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG To place a call using Station Speed Dial Bin: Press SPEED button, Dial the desired Station Speed dial bin number. Or Press the assigned Station Speed Dial button, To enter a Station Speed Dial number with CO Line and Name: Press TRANS/PGM and SPEED button, • Dial Speed bin number, Dial CO Access Code, (Skip this step in iPECS SBG-1000) Dial the desired number you wish to store, Press HOLD, Enter the name associated the number, if desired, using the following Character Entry Chart, Press HOLD. Letter Type Uppercase Lowercase Num Dial Pad (ABC) (ABC) Button Number of Button depression 2 1 2 3 4 1 3 4 1 1 @ • 1 @ • 1 1 < < 2 2 В С b A с а 3 D Е F d f 3 е 4 G н T h i 4 g 5 κ L 5 J k I

m

n

0

6

0

7	Ρ	Q	R	S	р	q	r	S	7
8	Т	U	V		t	u	v		8
9	W	Х	Y	Z	w	х	у	z	9
0		,	?	!		,	?	!	0
*	*				*				*
#	#				#				#
Character Entry Chart									

#### 3.3.5 Dial by Name and Entering Your Name

**Dial by Name** employs three different Directories: Private directory (Station Speed dial), Public Directory (System Speed dial), or Intercom directory.

NOTE—To allow others to contact you via the Intercom directory, you must enter a name for your station (up to 12 characters).

Characters are entered with two keystrokes as in the chart below.

Q - 11	A - 21	D - 31
Z - 12	B - 22	E - 32
13	C - 23	F - 33
1 - 10	2 - 20	3 - 30
G - 41	J - 51	M - 61
H - 42	K - 52	N - 62
I - 43	L - 53	O - 63
4 - 40	5 - 50	6 - 60
P - 71 R - 72 S - 73 Q - 7* 7 - 70	T - 81 U - 82 V - 83 8 - 80	W - 91 X - 92 Y - 93 Z - 9# 9 - 90
*1 - Blank *2 - : *3 - ,	0-00	#

**Character Entry** 

3.3.6 ACNR: To retry a busy external number until answered

When making an external call and a busy signal is received, the system can be set to retry the number until the call is connected, the feature is cancelled, or the maximum number of retries is attempted—this is Automatic Called Number Redial (ACNR).

For each retry, the system will activate your speaker then place the call with the microphone muted. When the remote end answers, you must select the <u>SPEAKER</u> button or lift the handset. Either of these actions will cancel the ACNR request as well as connect you to the remote party. A Redial button must be assigned at the station.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To set up an ACNR, while on an outgoing call:

- Press the assigned Redial button
- Hang-up handset.

#### To cancel the ACNR request:

Press the assigned Redial button

## 4. Call Handling

#### 4.1 Call Transfer: Sending a call to a different destination

You can send an active call to another station or other resource of the system, using **Call Transfer**. You can screen the transfer with the receiving party (**Screened Call Transfer**) or complete the transfer without screening (**Unscreened Call Transfer**).

Transferred calls, internal or external, are placed in **Transfer Hold**. These calls will receive Music on Hold (*MOH*) and will recall if not answered in a timely manner. If an **Unscreened Transfer** call encounters an error or DND, it may immediately recall at your Station.

DSS/BLF buttons may be used to transfer calls.

#### To Transfer an active call:

- While on an active call, press TRANS/PGM,
- Call the transfer party,
- Unscreened Call Transfer Hang-up, OR
- Screened Call Transfer When call is answered or Splash tone is heard, announce the call and then hang-up.

#### 4.2 Call Hold: Placing a call in a waiting state

You may place an active Internal or External call in one of several holding states. In System Hold, other nonrestricted stations may pick-up the call. In Exclusive Hold, only the holding station may pick-up the call.

The system is assigned a preferred hold type (System or Exclusive). You may override this **Hold Preference** by pressing the HOLD/SAVE button twice.

There are also user operations such as pressing a DSS/BLF button that will place a call in **Automatic Hold**.

Calls will remain in the held state for a period and then recall the user. This **Hold Recall** is provided with a different ring signal. If not answered in a timely manner, the Attendant will receive **Attendant Hold Recall**.

#### To Place a call on Hold:

• Press HOLD,

#### 4.3 Joining multiple people in a Conference

You can establish a **Conference** with up to 3 parties, 32 parties when using a MCIM (iPECS-LIK) or 128 parties when using a Multi-Party Conference Interface Module (VPCM). The other parties in the **Conference** may be internal or external.

A **Conference** can be placed on Hold and is subject to *Hold Recall*.

You may also use the Conference operation to join 2 external parties in a private conversation. This is an **Unsupervised Conference**, which is not subject to the normal Hold Recall operation.

A CONF button should be programmed at first.

#### In iPECS-LIK, iPECS SBG-1000

#### To establish an Conference:

- Establish first call,
- Press the assigned <u>CONF</u> button. The connected party is placed on exclusive hold and the user receives dial tone,
- Place second call,
- When connected, press the assigned <u>CONF</u> button, new call is placed on exclusive hold,
- Press the assigned CONF button to establish conference.

#### To set up an Unsupervised Conference:

- Establish normal conference,
- Press the assigned CONF button.

#### To retrieve an Unsupervised Conference:

- Lift the handset,
- Press the assigned CONF button.

#### 4.3.1 Setting up a Conference Room

In addition to establishing a Conference, up to 9 (iPECS-LIK) **Conference Rooms** can be set up, letting up to 32 parties converse when using a MCIM or up to 128 parties converse when using a VPCM. When setting up a Conference Room, a password can be designated for invited parties (internal and external parties) to use for accessing the established Conference Room.

#### In iPECS-LIK

#### To set-up a Conference Room:

- Press the TRANS/PGM button,
- Dial 53 to create a Conference Room,
- Dial the desired Conference Room number (1~9),
- If desired, enter a password for the Conference Room (must be exactly 5 digits),
- Press HOLD.

#### To join a Conference Room:

- Lift the handset,
- Dial the Conference Room entry code,
- Dial the Conference Room number,
- Dial the Conference Room password.

#### To delete a Conference Room:

- Press the TRANS/PGM button,
- Dial 54 (Conference Room delete code),
- Dial the Conference Room number (1~9),
- Dial the Conference Room password.
- Press HOLD.

#### In iPECS-MG

#### To set-up a Conference Room:

- Press the TRANS/PGM button,
- Dial 54 to create a Conference Room,
- Dial the desired Conference Room number (571-579),
- If desired, enter a password for the Conference Room (up to 12 digits),
- Press HOLD.

#### To join a Conference Room:

- Lift the handset,
- Dial 571-579(Conference Room entry code),
- Dial the Conference Room password.

#### To delete a Conference Room:

- Press the TRANS/PGM button,
- Dial 55 (Conference Room delete code),
- Dial the Conference Room number (571-579),
- Dial the Conference Room password.
- Press HOLD.

#### 4.4 Call Park: Placing a call on hold to Page

A user may transfer an active CO/IP call to a special holding location (Park Orbit), which can be accessed easily from any station in the system. Typically, this feature is used with *Paging* to notify the desired User of **Call Park**.

Parked calls are subject to *Hold Recall* after the **Call Park** timer.

#### In iPECS-LIK, iPECS SBG-1000

#### To park an active external call:

- Press TRANS/PGM,
- Dial the Call Park Location code,
- Return to idle.

#### To retrieve a parked call:

- Lift the handset,
- Dial the Call Park Location code.

#### In iPECS-MG

#### To park an active external call:

- Press TRANS/PGM,
- Dial the Park Orbit (541),
- Dial the Park number (00~49)
- Return to idle.

#### To retrieve a parked call:

- Lift the handset,
- Dial the Park Orbit (541),
- Dial the Park number (00~49).

### 5. Retrieving & Responding to Messages

#### 5.1 Responding to a Station Message Waiting Indication

Another station can leave a Station **Message Waiting** indication when you do not answer or your phone is in *DND*. If Ring/Message Indicator LED is programmed to Message Wait Indication, then the Ring/Message indicator LED will be flashing to indicate a Message Waiting. As a further notification, a **Message Wait Reminder Tone** can be provided. You may respond with a call back.

#### In iPECS-LIK, iPECS SBG-1000

#### To respond to your Station messages:

- Press CALL BACK, either the message contents summary is shown or the station messages waiting is listed,
- If the message contents summary is shown, dial '1' to select ST (Station Message Wait),
- Press CALL BACK to return a call for the oldest station message.

#### In iPECS-MG

#### To respond to your Station messages:

• Press CALL BACK to return message.

#### 5.2 Getting Voice Mail Messages

When callers are forwarded or recall to your Voice Mail Box, they can leave a voice message. Your Voice Mail Box is part of the integrated **Voice Mail** module, an external Voice Mail system.

These Voice Mail systems allow access to and management of the received voice messages. While in your Mail Box, you have control of your password and Mail Box greeting. In addition, you can remotely control Call Forward for your station to Voice Mail. You will need to register an *Authorization Code* (station number

and password) for your station to access VSF/VMIM/VPCM Voice messages.

#### In iPECS-LIK, iPECS SBG-1000

#### To retrieve Voice Mail locally using a Flex button:

- Press the assigned VOICE MAIL Flex button,
- Enter the authorization code(station number and password); the "Number of Messages" prompt is played,
- · Dial desired option codes,
- At completion of session, hang-up to return to idle.

#### To retrieve Voice Mail locally:

- Press CALL BACK, either the message contents summary is shown or the number of voice mails is shown,
- If the message contents summary is shown, dial '3' (iPECS-LIK) / '2' (iPECS SBG-1000) to select VSF messages,
- Press CALL BACK,
- After the prompt enter your station number and password,
- Dial desired option codes,
- At completion of session, hang-up to return to idle.

#### To access Voice Mail Box from a Remote Location:

- Lift the handset,
- Dial the telephone number of a CO line assigned for answer by the VSF Auto Attendant,
- Upon answer, dial '#', "Enter your password" prompt is played,
- Enter the Authorization code(station number and password),
- Dial desired option codes,
- At completion of session, hang-up.

#### In iPECS-MG

#### To retrieve Voice Mail locally:

- Press CALL BACK,
- After the prompt enter your station number, password,
- Dial desired option codes,
- At completion of session, hang-up to return to idle.

#### To access Voice Mail Box from a Remote Location:

- Lift the handset,
- Dial the telephone number of a *DISA* CO line assigned for answer by the Auto Attendant,
- Upon answer, dial 523 (VMIB Access Code),
- Dial the Mail Box and password to receive the 'Number of Messages' prompt.
- Dial desired option codes,
- At completion of session, hang-up.

### 6. Remote System Access

#### 6.1 Direct Inward System Access (DISA)

DISA (Direct Inward System Access) allows remote users to gain access to the system's resources (remote users may be required to enter an *Authorization Code*). The system will recognize remote user dialed inputs (call other stations, place calls over CO/IP lines, review voice mails, etc). The iPECS SBG-1000 system does not support normal DISA service, but supports call to the station and remote voice mail access when answering by a VSF auto attendant.

#### In iPECS SBG-1000

#### To call to the station remotely:

- Call the telephone number of a CO line assigned for answer by a VSF auto attendant,
- Upon answer, dial station number

#### In iPECS-LIK, iPECS-MG

#### To access system resources remotely:

- Call the system's DISA facility,
- Dial your Authorization code(station number and password),
- Dial '\*' for end mark (iPECS-MG),
- Dial as needed for the desired system resource.

#### 6.2 Mobile Phone Extension

When away from your desk or office you can place and receive calls on a registered mobile phone. Calls to your iPECS Phone will ring your Mobile Phone and you can place calls using the resources of the iPECS. You may need to activate the Mobile Phone Extension feature and assign the Mobile Phone number.

This feature is activated through an ISDN/VOIP CO line.

#### In iPECS-LIK, iPECS SBG-1000

#### To register a mobile phone number: (iPECS-LIK)

- Press the TRANS/PGM button,
- Dial 37,
- Dial the mobile phone number,
- Press the HOLD button.

#### To activate a registered mobile phone: (iPECS-LIK)

- Press the TRANS/PGM button,
- Dial 38,
- 1 to activate, 0 to deactivate,
- Press the HOLD button.

#### To place a call from the mobile extension using the iPECS System:

- Dial the ISDN DID number of the station; the system will check the Caller ID and answer the call. The user then will receive intercom dial tone,
- Place internal or external iPECS call as normal.

#### To Transfer a call from the mobile extension using the iPECS:

- Dial \* while on an iPECS call,
- Dial the desired extension, the call is transferred and the mobile phone returns to idle.

#### In iPECS-MG

#### To register a mobile phone number:

- Press the TRANS/PGM button,
- Dial 51,
- Select Mobile Index 1 or 2,
- 1 to activate, 0 to deactivate,
- Press the HOLD button.

#### To activate a registered mobile phone from the user's station:

- Press the TRANS/PGM button,
- Dial 52,
- Select Mobile Index 1 or 2,
- Dial the mobile phone number with CO Access code,
- Press the HOLD button.

#### To place a call from the mobile extension using the iPECS System:

- Dial the ISDN DID number of the station; the system will check the Caller ID and answer the call. The user then will receive intercom dial tone,
- Place internal or external iPECS call as normal.

#### To Transfer a call from the mobile extension using the iPECS:

- Dial the mobile flash digit "\*" while on an iPECS call,
- Dial the desired extension, the call is transferred and the mobile phone returns to idle.

## 7. Misc. Features

### 7.1 Background Music and Music on Hold (iPECS-LIK)

Two audio sources can be connected to the system. These sources or an internal source provide input for Background Music (BGM) and Music On Hold (MOH). In addition, a recorded message from the VMIM can be used. BGM is played over the speakers of the iPECS Phone when the station is idle. MOH is played to callers placed on *Hold*.

There are eleven possible selections for BGM and MOH: 00: Off 01: Source BGM1 02: Source BGM2 03: VSF MOH 1

03: VSF MOH 1 04: SLT MOH 1 05: SLT MOH 2 06: SLT MOH 3 07: SLT MOH 4 08: SLT MOH 5 09: VSF MOH 2 10: VSF MOH 3

#### To turn on Background Music:

- Press TRANS/PGM,
- Dial '73' to BGM code,
- Dial 00-10 to select hear and select the BGM,
- Press HOLD to save your selection.

#### 7.2 Using Internal, External and Meet-Me Paging

The User can broadcast announcements to other stations and/or external speakers. Stations are assigned to one or more of the **Internal Page Zones**. Users can also request a paged party answer the Page using Meet-Me Paging. In this case, the paged party may answer the page from any phone in the system by dialing the Meet-Me code.

#### In iPECS-LIK, iPECS SBG-1000

#### To make a page:

- Lift the handset,
- Dial Page zone code,
- If assigned, after page warning tone, make announcement.

#### To answer a Meet-me-Page:

- Lift the handset.
- Dial Meet-Me-Page code.

#### In iPECS-MG,

#### To make a page:

- Lift the handset,
- Dial Page code and the desired Page zone,
- If assigned, after page warning tone, make announcement.

#### To answer a Meet-me-Page:

- Lift the handset.
- Dial 546(Meet-Me-Page code).

#### 7.3 Push-To-Talk (PTT) Page (iPECS-LIK, iPECS-MG)

iPECS Phones can be assigned as a member of one or more of the system's nine Push-To-Talk (PTT) page groups. Users separately log-in or log-out of any one or all PTT groups to which the phone is assigned. Once logged in, place or receive one-way page announcements to/from other users who are logged in to the same PTT group.

#### In iPECS-LIK

#### To log-in to a PTT group:

- Dial the PTT Log-in/out code.
- Dial the desired PTT group number (1-9, 0).

#### To log-out of the PTT group(s):

- Dial the PTT Log-in/out code.
- Press the \* key.

#### To place a page to the active PTT group:

- Press and hold the PTT button.
- After confirmation tone make page announcement.

#### To assign a PTT Flex button:

- Press TRANS/PGM,
- Press the flexible button to be assigned.
- Dial '99'
- Press HOLD.

#### In iPECS-MG

#### To log-in to a PTT group:

- Dial the PTT Log-in/out code.
- Dial the desired PTT group number (1-9, 0).

#### To log-out of the PTT group(s):

- Dial the PTT Log-in/out code.
- Press the \* key.

#### To place a page to the active PTT group:

- Press and hold the PTT button.
- After confirmation tone make page announcement.

#### To assign a PTT Flex button:

- Press TRANS/PGM,
- Press the flexible button to be assigned.
- Press program type 1 (1: Fixed button, 2: Number, 0:Delete)
- Choose the button type as PTT using VOL ▲▼,
- Press HOLD.

#### 7.4 Wake-Up Alarm

iPECS supports an Alarm Clock for each station. You can set the alarm clock to repeat daily or as a one-time alarm.

When responding to the alarm by lifting the handset, BGM or Wake-Up Alarm announcement (iPECS-LIK, iPECS SBG-1000) will be provided.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To set the Wake Up Alarm clock:

- Press TRANS/PGM,
- Dial the Station User program Code 41 (iPECS-LIK) / 21 (iPECS SBG-1000)/13(iPECS-MG),
- Dial hh/mm for time alarm should alert,
- Press # to have the alarm repeat daily,
- Press HOLD.

#### To erase Wake-Up:

- Press TRANS/PGM,
- Dial the Station User program code Code 42 (iPECS-LIK) / 22 (iPECS SBG-1000/14(iPECS-MG),
- Press HOLD.

#### 7.5 System Voice Memo (iPECS-LIK, iPECS-MG)

The integrated Voice Mail modules incorporate several **Voice Memos** to provide Station Users with general information such as station number, date, time, and feature status. Voice Memos can be heard over the speaker or handset of the iPECS Phone and over the handset for SLTs. For the **Station Status Memo**, the following items are reported:

ICM Signaling Mode (Handsfree/Tone/Privacy)

Station IP Address

Station Mac Address

Number of messages x (x: number of all message waiting)

Wake-Up Time (hh:mm)

Do Not Disturb

Forwarded to station xxx

Forwarded to speed bin xxx

Queued CO/IP line xxx

Locked (Temporary COS)

COS x

#### To hear Date & Time memo:

• Dial "Information voice announce" feature code and dial 1, date and Time memo is heard, "Date is May 2nd.Time is xx:xx pm".

#### To hear Station Number Prompt:

• Dial "Information voice announce" feature code and dial 2, the Station Number memo is heard, "This is station 1500".

#### To hear Station Settings:

• Dial "Information voice announce" feature code and dial 3, Station Status Memo is heard.

## 8. Set Features & Flex Buttons

#### 8.1 Entering Station Program Data

A special code set is available for iPECS Phone users to assign certain attributes such as Authorization Codes (Passwords). After entering the **User Program** mode, dial the codes to select the attribute and setting. Once selected, the setting is saved. A list of the User Program codes, the feature/function and any input required are given in *Appendix B*.

#### To assign User Programmable station attributes:

- Press TRANS/PGM,
- Dial desired User Program code,
- Press HOLD.

#### 8.2 Assigning Features to Flex Buttons

You may assign features and functions to the Flex buttons on your iPECS Phone. If allowed, you may even assign CO/IP lines to the Flex buttons.

Flex buttons may be assigned for most features providing **One-Touch** feature activation (e.g., a Flex button may be assigned to access the *Account Code* feature and may include the Account code digits, as a one-touch account code button).

Features that may be assigned to a Flex button include: DSS/BLF—Enter station number.

- Flex Numbering Plan—Enter Flex Numbering Plan code see *Appendix A*(*Number Plan is not assigned by default*).
- User Program Code Dial "Program Mode" code or press [TRANS/PGM] button in iPECS-LIK, iPECS SBG-1000 and enter a User Program code, see *Appendix B*,
- (Program Mode code is programmed in feature numbering plan by Administrator)
- CO Line—Enter the CO line access code.

#### In iPECS-LIK, iPECS SBG-1000, iPECS-MG

#### To assign a feature to a Flex button:

- Press TRANS/PGM,
- Press the desired Flex button,
- Input number to dial
- Press HOLD.

#### To assign Fixed button to a Flex button:

- Press TRANS/PGM,
- Press the desired Flex button,
- Press TRANS/PGM, and user program code (Refer to the appendix B.)
- Press HOLD.

#### To delete feature:

- Press TRANS/PGM,
- Press the desired Flex button,
- Press HOLD.

#### 8.3 Network configuration

You many review the current network configuration or modify a new phone network configuration.

#### To access Network settings:

- Press TRANS/PGM button and search (Network) or (Network Settings) – Dial '78'(iPECS-LIK) / '38'(iPECS SBG-1000) / '80'(iPECS-MG) or press TRANS/PGM button more than 2 seconds in iPECS-LIK or iPECS SBG-1000.
- Enter the password (default=147\*); the following will display:

MFIM #[1/2] ? MFIM #1 - CHANGE[#]

- Press the # key to toggle between multiple profiles (MFIM),
- Press the VOL ▲▼ buttons to advance to the next network configuration item,
- Press the HOLD/SAVE button to save each setting.

#### To set LLDP:

In Network Config. Menu, use VOL ▲ ▼ buttons to locate the LLDP configuration screen (shown),

LLDP?

[ENABLED] – CHANGE [#]

• Enable in LLDP? menu and press the Hold/Save button.

#### To set default Config. settings:

In Network Config. Menu, use <u>VOL ▲ ▼</u> buttons to locate the Default Config. Screen (shown),

SET DEFAULT CONFIG(DOT:\*)

Press the \* key.

#### To exit Config. settings:

- Press the SPEAKER button,
- Press the \* key to exit, OR
- Press the # key to Reset/Reboot the phone with new setting.

## Appendix A User Program Codes

Code	Function	Code	Function
11	Answer Mode(H/T/P)	43	Send SMS MESSAGE
12	Station Name Program	44	Received SMS MESSAGE
13	Set Wake Up	51	Mobile-Ext. Enable
14	Reset Wake Up	52	Mobile-Ext. Number PGM
15	Language Program	53	Mobile-Ext. CLI PGM
16	LCD Date Mode Change	54	Create Conference Room
17	LCD Time Mode Change	55	Delete Conference Room
21	ICM Ring Type Program	61	Speaker/Headset PGM
22	CO Ring Type Program	62	Headset Ring Program
23	Ring Download	71	Register Station ICLID
31	Temporary COS Mode	72	View Station ICLID
32	Retrieve COS	80	Network Setting
33	Walking COS	81	View IP Address
34	Register Password	82	View Mac Address
35	Call Log Protect	83	View Keyset Version
36	SMS Message Protect		
41	Preselected MSG PGM		
42	Set User Message		

#### iPECS-LIK

Code	Function	Code	Function
10	Enblock Dial	73	Select BGM source
11	Intercom Differential Ring	74	User Name registration
12	CO/IP Differential Ring	75	Display Phone IP Address
13	Intercom Answer Mode	76	Change Phone IP Address
14	Call Coverage Attribute	77	Display Phone MAC Address
15	Station Ring Download	78	Network Configuration
19	Ear Mic Headset	79	Display Phone Version
21	Knock down Station COS	80	Record button
22	Restore Station COS	81	ISDN CLIR button
23	Walking COS	82	ISDN COLR button
24	ICR Scenario	83	ACD DND button
25	LIP Phone Statistics	84	Account Code button
31	Station Msg Wait Retrieve	85	LOOP button
32	CLI/IP Msg Wait Retrieve	86	Intrusion button
33	Register Authorization Code	87	ICM button
34	DID Call Wait	88	CAMP-ON button
35	Exec/Sec MWI	89	ISDN Keypad Facility button
36	Send SMS message	8#	Voice Over button
37	Register Mobile Extension	90	Speed button
38	Activate Moble Extension	91	Conference button
39	Register Mobile Extension CLI	92	Callback button
41	Set Wake-Up Time	93	DND button
42	Erase Wake-Up Time	94	Flash button
51	Custom/Pre-selected Message	95	Mute button
52	Register Custom Message	96	Monitor button
53	Create Conference Room	97	Redial button

### LIP-8002E/2AE

Code	Function	Code	Function
54	Delete Conference Room	98	Call Forward button
55	Monitor Conference Group	99	Push-To-Talk button
57	Call Log Display button	*0	Hot Desk Login
61	Headset/Speakerphone mode	**	Hot Desk Logout
62	Select Headset Ring type	*7	Hunt Forced Call Forward
67	Call Coverage button	*8	Register Bluetooth device
71	LCD Display Language	*9	Activate Bluetooth device
72	Sys version display		

#### iPECS SBG-1000

Code	Function	Code	Function
11	Intercom Answer Mode	38	Network Configuration
12	Headset/Speakerphone mode	41	Forced FWD to Destination
13	Select Headset Ring type	42	Call Log Display
21	Set Wake-Up Time	43	CLIR Service
22	Erase Wake-Up Time	44	COLR Service
31	LCD Display Language	4*	LOOP button
32	Sys version display	50	CALLBACK button
33	Select BGM source	51	CONF button
34	User Name registration	52	MUTE button
35	Display Phone IP Address	53	ICM button
36	Display Phone MAC Address	54	REDIAL button
37	Display Phone Version		

#### iPECS-MG

Code	Function	Remarks
11	Intercom Answer Mode	1:H, 2:T, 3:P
12 + Name	User name creation	2 digit for each character
13 + Time	Set wake-up alarm time	HH/mm, 24-hour clock
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 Backlight	0-2
21	ICM Ring Type	
22	TRK Ring Type	
23	Ring Download	LIP-Series Only
24	Back Ground Music	
31	Temporary COS	Auth. Code required
32	Retrieve COS	Auth. Code required
33	COS Override (Walking COS)	Auth. Code required
34	Register Password	
35	Call Log Protect	
36	SMS Message Protect	LIP-Series/LDP6000-Series
41 + MSG number [xx]	Set Pre-defined Message.	0-9, MSG *: User Custom # Deactivation
42	Create a Station User Message	
43	Send SMS Message	LIP Series/LDP6000 Series
44	Receive SMS Message	LIP Series/LDP6000 Series
51 + x	Activate a mobile phone	X=1-2
52 + x	Register the mobile number	X=1-2
53 + x	Register the mobile CLI number	X=1-2
54 + Rm & Auth Code	Start a Conf Room	
55 + Rm & Auth Code	Close a Conf Room	
61	Speaker/Headset Mode	Speak/Headset/E-MIC
62	Headset Ring Mode	Speaker/Headset/Both

Code	Function	Remarks
71	Register Station ICLID	
72	View Station ICLID	
81	View IP Address	IP Phone/ DTIM/SLTM
82	View Mac Address	IP Phone/ DTIM/SLTM
83	View IP Phone version	
80	Network Setting	LIP Series
91	System Version	
92	System IP Address	

# Appendix B Useful Information : Open Source Software Notice

## **Open Source Software Notice**

This following GPL (General Public License) software used in this product are subject to the GPL License Agreements.

You can obtain a copy of the GPL licenses from Ericsson-LG Enterprise Web Site (http://www.ericssonlg-enterprise.com).

### GPL License:

- 1. **u-boot**
- 2. bash
- 3. linux
- 4. busybox
- 5. Alsa Libraries
- 6. udhcpc
- 7. **ortp**
- 8. Curl / LibCurl
- 9. libsrtp
- 10. Expat xml parser

Ericsson-LG Enterprise offers to provide source code to you on CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to Ericsson-LG Enterprise at. : opensource@ericssonlg.com.

This offer is valid for a period of three (3) years from the date of the distribution of this product by Ericsson-LG Enterprise.