

# Yeastar MyPBX U Series / EasyLynq

# INSTALLATION AND CONFIGURATION PROCEDURES

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# About this document

The primary audience for the remaining of this document is installation and support personnel.

It is hereafter assumed that the reader is familiar with the EasyLynq product and the Yeastar MyPBX system. Some of the information included in this document may not be accurate or may differ of the one found at a costumer's location. For readability reasons, no indication is provided on how to reach the information in the enclosed pictures.

# System requirements

The following tables show the minimum specifications of the EasyLynq computer for several configurations. If being used to support other applications, such as EasyLynq IVTS, these specifications may differ.

#### EasyLyng Enterprise / Server

Extensions	Intel processor	Memory	Storage	Windows type
100	i3 2.2 GHz	4 GB	60 GB	Workstation
500	i5 2.4 GHz	4 GB	100 GB	Workstation
1000	Xeon 2.2 GHz Quad Core	4 GB	160 GB	Server
5000	Dual Xeon 2.8 GHz Quad Core	8 GB	250 GB	Server

#### EasyLyng Hotel

Rooms	Intel processor	Memory	Storage	Windows type
100	i5 2.4 GHz	4 GB	80 GB	Workstation
300	i7 2.8 GHz	4 GB	120 GB	Workstation
500	Xeon 2.4 GHz Quad Core	4 GB	200 GB	Server
1000	Dual Xeon 2.8 GHz Quad Core	8 GB	250 GB	Server

EasyLynq is fully compliant with Windows XP SP3, 2003 Server, Vista, Server 2008, 7, Server 2012 and 8. EasyLynq has been certified for Windows 7, Server 2012 and 8.

# Conventions

The following special signs are used in this document to point out information that must be carefully read:



Warning: alerts about configuration details that may cause malfunctions or not work as expected.



Notice: indicates additional information as a reference.

The following chapter describes the main steps to set up EasyLynq and MyPBX for billing purposes both for EasyLynq Enterprise/Server and EasyLynq Hotel.

# EasyLynq Office/Server integration

### **Operation overview**

The implementation of call accounting requires the installation and configuration of a MySQL ODBC data source in the **PBXAgent** computer.

**PBXAgent** establishes an ODBC connection to **MyPBX** database, retrieves the call records data and stores them in its own database after processing.

CDRs are extracted from the database using the *uniqueid* field as the query filter.

### Call Data Records in the MySQL database

The default name for the call records table is *cdr*. However EasyLynq expects to manage monthly tables in the format *cdrYYYYMM*, where *YYYY* stands for the year and *MM* stands for the month.

# Configuring the CDR database access in MyPBX

Start your favourite browser and login to MyPBX administration page.

Under System > Security Settings > Database Grant, create an user and grant him access to Database CDR and Record.

MyPBX	Z Status	System PBX Repo	
Network Preferences	Database Grant		
Security Settings			
Security Center		Grant Users	
Firewall Rules	+ Add		
IP Blacklist	User Name	Database	
AMI Settings	EasyLynq	CDR-Record	
Database Grant			
Alert Settings	Edit EasyLyng		x
LDAP Server		User Name: EasyLyng	
Storage Management			
System Preferences		Password: ••••••••••••••••••••••••••••••••••••	

# **ODBC Data Source configuration**

The Windows ODBC driver setup for MySQL database can be found at: <u>https://dev.mysql.com/downloads/connector/odbc/3.51.html</u>

Download the appropriate driver: either 32-bit or 64-bit but it should match the version of PBXAgent. Double-click on the downloaded file and follow the instructions in order to install the driver.

Open **Control Panel** and go to **Administrative Tools** > **DataSources (ODBC)**. Select the tab **System DSN**, press the button **Add...**, select the **MySQL ODBC driver** and configure the connection.

The following picture shows a typical configuration. The parameters may vary according to the specific requirements of the installation. Make sure that the **User** and **Password** fields match those entered in MyPBX configuration (see previous chapter).

MySQL Connector/ODBC [	Data Source Configuration
Musque Connector/ODB	c 💽
Connection Parameters	s
Data Source Name:	МуРВХ
Description:	
TCP/IP Server:	192.168.5.150 Port: 3306
Named Pipe:	
User:	EasyLynq
Password:	•••••
Database:	asteriskcdr 🗸 <u>T</u> est
Details >>	OK <u>Cancel</u> <u>H</u> elp

If you've decided to install the 32-bit versions of both **MySQL** driver and **PBXAgent** on a 64-bit Windows, you must run the ODBC Data Source Administrator located in the folder C:\Windows\SysWOW64 (odbcad32.exe).

# **PBXAgent configuration**

This chapter describes the required steps to configure **PBXAgent** in order to put the interface up and running.

#### **ODBC** connection parameters

- 1. Enter to the **PBXAgent** configuration window and go to the Interfaces tab.
- 2. Select an interface for editing. In case the Interface type window appears before you, select ODBC and click <OK>.
- 3. Change the Model, if required, to **Yeastar MyPBX U Series**.
- 4. Enter the System DSN (or choose from the list), the user ID and password. These parameters must match those entered during the ODBC configuration.

MAR:2		×
ODBC parameters		
System <u>D</u> SN:	MyPBX	
<u>U</u> ser:	EasyLynq	
P <u>a</u> ssword:	•••••	
General parameters		
Send data to file	Use computer date and time	
Model: Yeastar MyPB	X U Series	
	OK	el

Press the **Properties** button.

### Property page ODBC

Make sure the table name for billing data is *cdr*. The only permitted access mode is **Process** only calls with 'uniqueid' greater than:.

Yeastar MyPBX U	J Series - Properti	es	×
ODBC	General	Numbering	Fields
Call detail rec	cords table		
Ta	ble: cdr		•
Database rec	cords ss and <u>d</u> elete		
Proce	ss only calls ended	after:	
	2015-06-17	✓ , 17:43:31	
Proce	ss only calls with 'u	niqueid' greater than:	
		ОК	Cancel

### **Property page General**

Fill in the outward access prefixes table, if required. These prefixes will be stripped out of the dialled numbers on outgoing calls. If **MyPBX** is configured to allow outgoing calls using authorisation codes, add those prefixes to the table and define the length of the authorisation code.

Yeastar MyPBX U	Series - Properti	es	<b>—</b>
ODBC	General	Numbering	Fields
Outgoing acce	ess codes		
	Add	->	
	<- Rem	ove	
Authorisation	code prefixes		
	Add	->	
	<- Rem	ove	
	Number of	digits: 2	
		ОК	Cancel

## Property page Numbering

Fill in the internal numbering plan table:

Yeastar MyPBX	U Series - Proper	ties	<b></b>
ODBC	General	Numbering	Fields
Internal num	bering plan		
Prefix	Supress	Length	
<b>⊻</b> 3		3	
<b>₽</b> 6		3	Add
			Edit
			Remove
		OI	K Cancel

Enter each and every prefix of the internal extensions, specifying the exact length of the extension and whether you want to remove the prefix.

Extension prefix	<b>x</b>
Prefix: 6	Supress
Length: 3 🔻	V Local
ОК	Cancel

On a multi-MyPBX scenario, remove the check mark on **Local** for prefixes belonging to extensions in remote equipments in order to prevent duplication of internal call records across the voice network.

## **Property page Fields**

In the **Fields** tab, adjust the column name for each field in the *cdr* table and the attributes table. This operation is for advanced use and usually not required, you should leave the default configuration.

ODBC	General	Numbering	Fields
ssignment			
Field		Column name	
channel		srctrunk	
dstchannel		dstrunk	
🗸 start		datetime	
duration		duration	=
🔳 billsec		billable	
disposition		disposition	
🔳 uniqueid		uniqueid	-
Advanced attril	outes		
Process fie	ld 'clid' (extensio	n's description)	
🔲 Use 'accou	intcode' field as	authorization code	
Extension in	n field 'userfield'	(dcontext='external')	
Transform in	n field 'userfield'	(dcontext='incomming')	
Extension in	lds 'dstchannel'	and 'channel' as alphanum	ieric

Advanced attributes:

- Process field 'clid' (extension's description) Check whenever you want EasyLynq to retrieve the extension's description from the call detail record.
- Use 'accountcode' field as authorization code Check to change the way EasyLyng should process this field.
- Extension in field 'userfield' (dcontext='external') Check whenever the extension number must be retrieved from 'userfield' on outgoing calls. The 'dcontext' field must carry the value 'external' in these cases.
- Process fields 'dstchannel' and 'channel' as alphanumeric Check this attribute in order to reduce the number of channels created by EasyLynq.



It is strongly recommended that you check the attribute **Process fields 'dstchannel' and 'channel' as alphanumeric** in order to prevent EasyLynq from creating a huge number of channels in its database.

Validate the configuration. In the **Interfaces** tab of the main window, select the **MyPBX** interface and press **Monitoring**. Check for the proper configuration of the database connection and watch the call records flowing.

# EasyLynq Hotel integration

### **Operation overview**

The **AMI Hospitality Service** is available starting on **MyPBX** version 15.19 and hosted on all subsequent **MyPBX** platforms.

MyPBX AMI interface implements the following basic services:

- Check-in, with the assignment of the guest's name and language to the room phone sets and permission for outward access.
- Check-out, with restriction for establishing outgoing calls to PSTN.
- Do Not Disturb service.
- Message Waiting Indicator, to signal new voice mail messages and written messages at the hotel reception.

**EasyLynq SIP Messaging** interface extends the hospitality service to a higher level, adding the following features:

- Full wake-up service (set / cancel / change / answer control), in nine languages.
- Room-status.
- Minibar/Laundry posting.

**EasyLynq IVTS Hotel** can replace **SIP Messaging** and adds advanced functionality such as voice mail in 9 languages for guests and staff, Text-To-Speech and much more.



For the sake of simplicity, only the configuration for **SIP Messaging** is explained in this chapter. The same steps also apply to **IVTS**.

# **MyPBX** configuration

Start your favourite browser and login to MyPBX administration page.

### **Enable AMI connectivity**

Under **System** > **Security Settings** > **AMI Settings**, enable AMI and define an user and password.

MyPBX	Status System PBX Reports Addons Logout
Network Preferences	AMI Settings
Security Settings	AMI Settings
Security Center	C Enable AMI
Firewall Rules	User Name : admin
IP Blacklist	Password : password
AMI Settings	IP Restriction
Database Grant	Permitted 'IP address/Subnet mask' : 192 168 5 26/255 255 255 0
Alert Settings	
LDAP Server	
Storage Management	
System Preferences	
	Permitted 'IP address/Subnet mask' :
	Save Save



For security reasons, assign the IP address of the **PBXAgent** computer as the only permitted client.

### SIP trunk configuration for SIP Messaging and IVTS

MyPBX	•	Status	System	PBX	Reports	Addons	Logout
Extensions	VolP Trunk						
Trunks	VoIP Trunk						
Physical Trunk	+ Add VolP	Trunk 🔀 Dele	te the selected	Trunk			
VoIP Trunk				No VolP Tru	nke Dofined		
Dutbound Call Control				NO VOIP ITU	inks Denneu		
Inbound Call Control	Service Provide	er.					
Audio Settings	+ Add Servic	e Provider 📉 📉	Delete the sel	ected Trunk			
Basic Settings		Provider Nam	e Tj	уре	Hostname/IP		
Advanced Settings		EasyLynqSP	S	IP	192.168.5.26		

Navigate to **PBX** > **Trunks** > **VoIP Trunk**.

Press the button Add Service Provider. Enter the IP address of the PBXAgent computer in the Hostname/IP field. Adjust the other parameters according to the picture below. Make sure the codecs G.711 a-law and u-law have the highest priority and press the button Save.

Type:	SIP •
Provider Name:	EasyLynqSP
Hostname/IP:	192.168.5.26 :5060
Maximum Channels 0:	
Codecs :	First: a-law V Second: u-law V Third: GSM V
	Fourth: None  Fifth: None
Transport:	
Qualify:	
DTMF Mode:	rfc2833 🔻
OD Settings	
Global DOD:	
DOD: As	sociated Extension: 601 T Add DOD Add Bulk
000. 765	



The Maximum Channels value must be set to the number of allowed simultaneous conversations as defined in the EasyLynq license.

Navigate to **PBX** > **Outbound Call Control**.

MyPBX	Status	System	Reports	Addons	COS Logout
Extensions	Outbound Routes				
Trunks	+ Add Outbound Route	K Delete the selected Route	e		
Outbound Call Control		Route Name	Dial Pattern		
Outbound Routes		pstnout	9.		×
Speed Dial Settings					
Inbound Call Control					
Audio Settings					
Basic Settings					
Advanced Settings					

Create an outbound route as follows:

Route	Name	EasyLyng				
	Password:		•	PIN Settings		
		No	•	<u>. m oottingo</u>		
			•			
	ry Hunt ice Hours :					
	ice Hours :	-	•			
Dial Patterns 🛈	<b>C</b> ( )					
Dial Pattern	Stri	ip .	PI	epend	_	
8.	1				×	
🕂 Add						
Member Extensions						
Available Extensions	5			Selected	i	
				D)		
		-	300(SI			- 2
	*	»»»	301(SI	P)		Î
		»» →		P) P)		Î
		»» →	301(SI 302(SI 303(SI 304(SI	P) P) P) P)		Î
		→ +	301(SI 302(SI 303(SI 304(SI 305(SI	P) P) P) P) P)		Î
		>>> 	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI	P) P) P) P) P)		
	*	→ +	301(SI 302(SI 303(SI 304(SI 305(SI	P) P) P) P) P)		
Member Trunks	*	→ +	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI	P) P) P) P) P) P) (S)		
Member Trunks Available Trunks	*	→ +	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI	P) P) P) P) P)	1	
Available Trunks	*	→ +	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) P) (S)	1	
Available Trunks pstn3(FXO) pstn4(FXO)	*	→ +	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	1	-
Available Trunks pstn3(FXO) pstn4(FXO) BriTrunk1(BRI)	*	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	1	
Available Trunks pstn3(FXO) pstn4(FXO)	*	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	4	-
Available Trunks pstn3(FXO) pstn4(FXO) BriTrunk1(BRI)	•	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	1	•
Available Trunks pstn3(FXO) pstn4(FXO) BriTrunk1(BRI)	*	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	i	
Available Trunks pstn3(FXO) pstn4(FXO) BriTrunk1(BRI)	* *	→ ← ≪ ≪	301(SI 302(SI 303(SI 304(SI 305(SI 510(SI 601(F)	P) P) P) P) P) (S) Selected	1	



Make sure that the previously created Service Provider and all extensions are assigned to this route.

# PBXAgent configuration for MyPBX Hotel interface

When running in Hotel mode, PBXAgent provides two additional property pages.

#### **Property page Hotel - General**

Enter the IP address of **MyPBX**, do not change the default port 5038. The **User** and **Password** fields must match those of the AMI settings (see chapter <u>Enable AMI</u> <u>connectivity</u>). Press the button **Connect** when done in order to acquire the outbound routes.

ODBC	_	ieneral	Numb	ering	Field
Hote	I - Genera	al	H	lotel - Lar	iguages
IP a	address:	192.168.5.	150	:	5038 🚔
	User:	admin			
Pa	assword:	•••••	•		
	A succe	essful conne l in order to a nect			



The connection must be established in order to define the outbound routes that shall be assigned on a guest check-in and removed on check-out.

ODBC	G	eneral	Numbering		Fields
Hotel -	Genera	l	Hotel	Langua	iges
IP add	dress:	192.168.5	.150	: 50	38 🚔
	User:	admin		]	
Pass	word:	•••••	•	1	
Place a che every route assign on ch remove on c	you wa heck-in	nt to and	] EasyLynq ] pstnout		

After a successful connection, the aspect of the property page is changed.



Only check outbound routes for PSTN, mobile gateways and so on. The access to the SIP trunk for SIP Messaging or IVTS must be permitted even when the room is vacant otherwise the housekeeping staff will not be able to change room-status or post minibar/laundry articles.

#### Property page Hotel - Languages

Assign each EasyLynq language to the corresponding **ILang** code.

Yeastar MyP	BX U Series - Propert	ies	×
ODBC	General	Numbering	Fields
Ho	otel - General	Hotel - Lang	guages
Languag	ge codes assignment –		
	Language	ILang	<u>^</u>
	Dutch	NL	
	English	UK	E
	French	FR	
	German	DE	
	Portuguese	PT	
	Spanish	FS	*
	Add language code	to guest name	
		ОК	Cancel

## PBXAgent configuration for MyPBX SIP route

This chapter describes the steps to configure the **EasyLynq SIP Messaging** interface on **PBXAgent**. The same steps also apply to IVTS Hotel.

#### SIP connection parameters

- 1. Enter to the **PBXAgent** configuration window and go to the Interfaces tab.
- 2. Select an interface for editing. In case the Interface type window appears before you, select TCP/IP and click <OK>.
- 3. Change the Model, if required, to EasyLyng SIP Messaging.
- 4. Enter an optional description of the interface, the IP address and the SIP port number of the **MyPBX**.

MAR:1		×
Function	IP parameters	
Background	Description:	SIP trunk for Yeastar MyPBX
	IP Address:	192.168.5.150 : 5060
	<u>U</u> ser:	
	Password:	
General parameters		
🔲 Send data to <u>fi</u> l	e	$\boxed{}$ Use computer date and time
Model: EasyLyng	SIP Messaging	
		OK Cancel

Press the button **Properties** in order to enter in the advanced configuration of this interface.

#### Property page SIP Trunk

Select the appropriate interface (if more than 1 NIC is installed on the computer) and adjust the number of allowed simultaneous calls to the maximum value permitted by the EasyLyng license. You may also want to modify the **User** and **Display** fields.

EasyLynq SIP Messaging -	Properties		×
Number transformation	Access codes	Data Entry	Wake-up
SIP Trunk		SIP Parameters	
Definitions			
Interface:	192.168.5.26	▼ : 5060 ♣	
Protocol:	UDP -		
User:	787	Display: Auto	
Simultaneous calls:	4		
Backup proxy			
IP address:			
		ОК	Cancel

## **Property page SIP Parameters**

In general, you do not need to change the default parameters of this page.

EasyLynq SIP Messaging -	Properties		×
Number transformation	Access codes	Data Entry	Wake-up
SIP Trunk		SIP Parameters	s
	uto 0000 to 41	000 💌	
Codecs		Frame (ms)	
G.711 A-Law		30	t
G.711 u-Law		30	I
		ОК	Cancel

### Property page Number transformation

EasyLynq SIP Messaging - F	Properties		×
SIP Trunk		SIP Parameter	rs
Number transformation	Access codes	Data Entry	Wake-up
DDI	Extension	A	\dd
		Rei	move
		ОК	Cancel

In general, you do not need to add any rules for number transformation.

#### Property page Access codes

Enter the digits to access the various services. For a better understanding of the meaning of these digits, please refer to chapters <u>Examples of room-status and minibar posting</u> and <u>Wake-up programming at the phone set</u>.

EasyLynq SIP Messaging - F	Properties		<b>—</b> ×-
SIP Trunk		SIP Parameter	'S
Number transformation	Access codes	Data Entry	Wake-up
- Service access codes -	oom-status: 1		
ירו	oom-status.		
Wake	up program: 2		
Mini	bar posting: 3		
Laun	dry posting: 4		
		ОК	Cancel

# Property page Data Entry

Adjust these parameters accordingly.

EasyLynq SIP Messaging - Pi	roperties		<b>x</b>
SIP Trunk	SIP TrunkSIP Parameters		
Number transformation	Access codes	Data Entry	Wake-up
Room-status codes			
Maximum number of	f digits 1 👻		
Maid identification			
Code:	A	dd -> 1234	
Digit count: 4	▼ <- R	emove	
Language			
Default language: English 💌			
		ОК	Cancel



It is highly recommended to use maid identification in order to prevent the housekeeping services to be accidentally accessed by the guest.



If the number of digits for every room-status code is the same, you may choose to set the value **Maximum number of digits**. This will slightly ease the input by the housekeeping staff since it is no longer required to dial the validation digit (see chapter <u>Examples of room-status and minibar posting</u>).

### Property page Wake-up

Adjust the wake-up timings accordingly and assign the EasyLynq languages to the supported voice messages. The number of wake-up retries is configured at the complex properties in the EasyLynq administration module.

EasyLynq SIP Messaging - Properties					
SIP Trunk			SIP Parameter	8	
Number tran	Number transformation Access code		codes	Data Entry	Wake-up
Timers (in	seconds)				
	Maximum attempt duration: 40				
	Gap between retries: 60				
Language	codes assign	ment			
	Language		ILang		
	English		UK		
	French		FR		
	German		DE		
	Spanish		ES		
				ОК	Cancel

# Examples of room-status and minibar posting

The following examples assume the digit 8 as the access code for the EasyLynq SIP trunk.

Operation	Digits	Comments
Maid lifts the handset	Pt .	
Maid dials SIP Trunk access code plus "Room-status" code	8 1 SEND	Message "Welcome" is heard
Maid dials invalid ID	4444	Message "Code rejected" is heard
Maid dials ID again	1234	Message "Code accepted" is heard
Maid dials room-status code	5	Room-status code
Maid dials validation digit *	#	Message "Code accepted" is heard
Maid hangs up	J+	Room changes to status PBX code 5

Room-status input, according to the previous snap-shots:

\* may not be required, see chapter Property page Data Entry.

Example of minibar posting:

Operation	Digits	Comments
Maid lifts the handset	Pt .	
Maid dials SIP Trunk access code plus "Minibar" code	8 3 SEND	Message "Minibar" is heard
Maid dials ID	1234	Message "Code accepted" is heard
Maid dials article code	541	Code for article #1
Maid dials intermediate digit	*	Message "Code accepted" is heard
Maid dials article code	275	No such article
Maid dials intermediate digit	*	Message "Code rejected" is heard
Maid dials article code	274	Code for article #2
Maid dials termination digit	#	Message "Code accepted" is heard
Maid hangs up	¢	2 articles are charged to the room

## Wake-up programming at the phone set

This chapter presents several voice messages and exemplify how to mark, modify and cancel an automatic wake-up service using the interactive voice response system of EasyLynq.

Wake-up times must be entered in 24 hour format and refer to a time in the 24 hour period starting at the current time. The following examples assume the access code for the EasyLynq SIP trunk is the digit 8.

#### a) Wake-up mark (no wake-up is set)

Guest lifts the handset	Bt	
Guest dials SIP Trunk access code plus "Wake-up" code	8 2 SEND	"Welcome to the automatic awakening call service. Please enter the time for the awakening call in 24 hour clock notation."
Guest dials	0715	"Your awakening call has now been set."
Guest hangs up	۶	

#### b) Wake-up modification

Guest lifts the handset	B+	
Guest dials SIP Trunk access code plus "Wake-up" code	8 2 SEND	"Welcome to the automatic awakening call service. You have a service for awakening set for 7 hours and 15 minutes. Press 1 to modify this call or press 3 to delete it."
Guest dials	1	"Please enter the time for the awakening call in 24 hour clock notation."
Guest dials	0730	"Your awakening call has now been set."
Guest hangs up	}	

#### c) Wake-up cancellation

Guest lifts the handset	₿†	
Guest dials SIP Trunk access code plus "Wake-up" code	8 2 SEND	"Welcome to the automatic awakening call service. You have a service for awakening set for 7 hours and 30 minutes. Press 1 to modify this call or press 3 to delete it."
Guest dials	32	"Your awakening call has been deleted."
Guest hangs up	۶	