



Introducing our new IPBX Comdif Telecom Cyber-Wrt



We selected the ASUS RT-N16 powerfull platform.
The DD-WRT Firmware DD-WRT turns it into a router extremely powerful and allows
boarding our PBX Cyberhotel on an SSD.



This platform is multipurpose and offer 3 levels of our software

- **OPTION 1** traditional pbx business simple with the most used functions
Administration Gui password protected, available in 3 languages:
English, French, Spanish

Phones administration add / delete, answering machine activation

The screenshot shows the 'New sip phone' configuration page. On the left is a navigation menu with 'Phones' selected. The top right shows language options (Français, Español, English) and a clock indicating 2 January 2013.

New sip phone

Username ex. Standard
 Number Phone number
 Secret Password
 Callerid format +33xxxxxxxx
 Call-group Only number
 Fill below Only if you need voicemail
 Email E-Mail address Only if you want receiving voice messages by Email
 Secret code Only number

PHONES LIST

STANDARD	5000	Delete	Follow me	Phone is online. 192.168.20.55 SIP-Useragent: Yealink SIP-T28P 2.61.0.80
STANDARD	5001	Delete	Follow me	Phone is online. 192.168.20.55 SIP-Useragent: Yealink SIP-T28P 2.61.0.80
bureau	5010	Delete	Follow me	Phone is not online.
Mobile 1	5200	Delete	Follow me	Phone is online. 192.168.20.56 SIP-Useragent: N510 IP PRO-42.075.00.000.000
Mobile 2	5201	Delete	Follow me	Phone is online. 192.168.20.56 SIP-Useragent: N510 IP PRO-42.075.00.000.000
Mobile 3	5202	Delete	Follow me	Phone is online. 192.168.20.56 SIP-Useragent: N510 IP PRO-42.075.00.000.000
Mobile 4	5203	Delete	Follow me	Phone is online. 192.168.20.56 SIP-Useragent: N510 IP PRO-42.075.00.000.000

Call group definition, Hunt activation for phone supervision
Follow me activation on single or phone group or external number

The screenshot shows the 'FOLLOW ME' configuration page. The left navigation menu and top header are the same as in the previous screenshot.

FOLLOW ME

Extention number Destination
 5000 5000

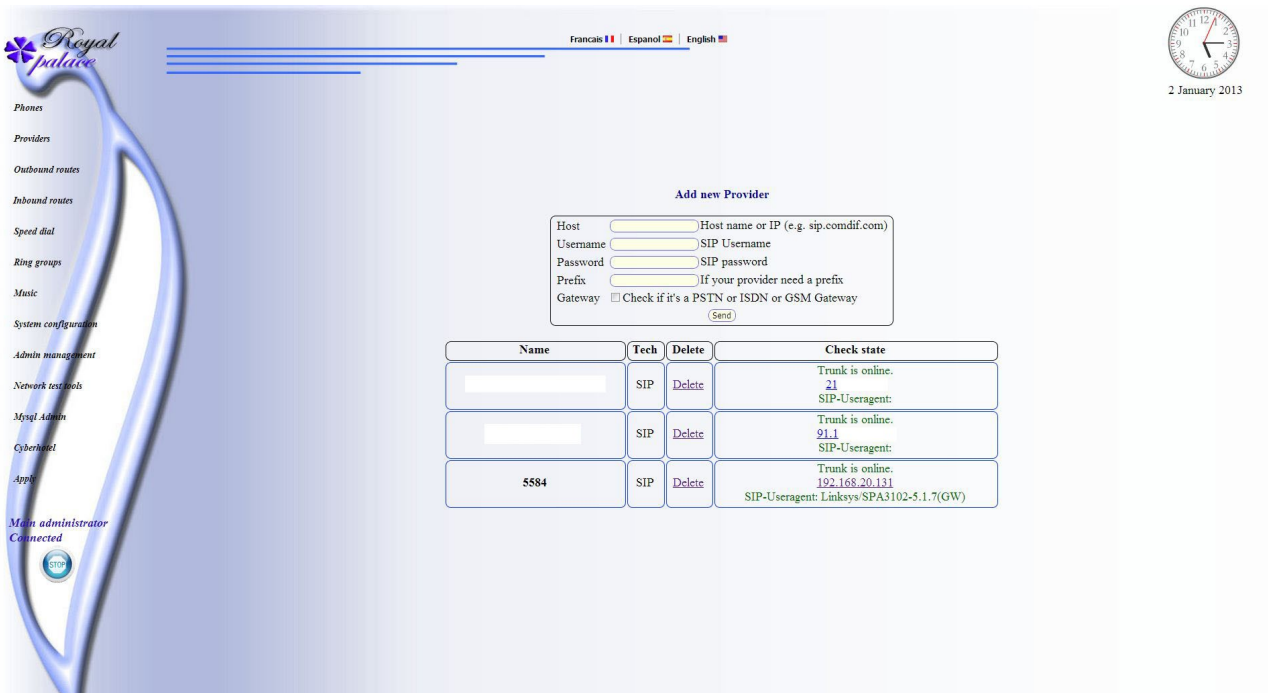
Forward extension
 Number Change for other internal phone or your phone or external number

For normal mode without forward just send without change, you can also enter 2 internal phone with : separation, exemple **phone1:phone2** The 2 extensions will ring together on incoming call.

To forward to your mobile phone
 enter your mobile phone number

You can also do this job from your phone, dial *21* on your phone
 21 only to cancel
 *21*5010 to forward on extension 5010
 *21*01XXXXXXXXX to forward on external phone number 01XXXXXXXXXX

Providers and Gateways add / delete



The screenshot shows the 'Add new Provider' form with the following fields:

- Host: Host name or IP (e.g. sip.comdif.com)
- Username: SIP Username
- Password: SIP password
- Prefix: If your provider need a prefix
- Gateway: Check if it's a PSTN or ISDN or GSM Gateway

 A 'Send' button is located below the form.

Below the form is a table listing existing providers:

Name	Tech	Delete	Check state
<input type="text"/>	SIP	Delete	Trunk is online. 21 SIP-Useragent:
<input type="text"/>	SIP	Delete	Trunk is online. 91.1 SIP-Useragent:
5584	SIP	Delete	Trunk is online. 192.168.20.131 SIP-Useragent: Linksys/SPA3102-5.1.7(GW)

The most easy GUI to setup a FXO/GSM/ISDN trunk on a gateway in one click.

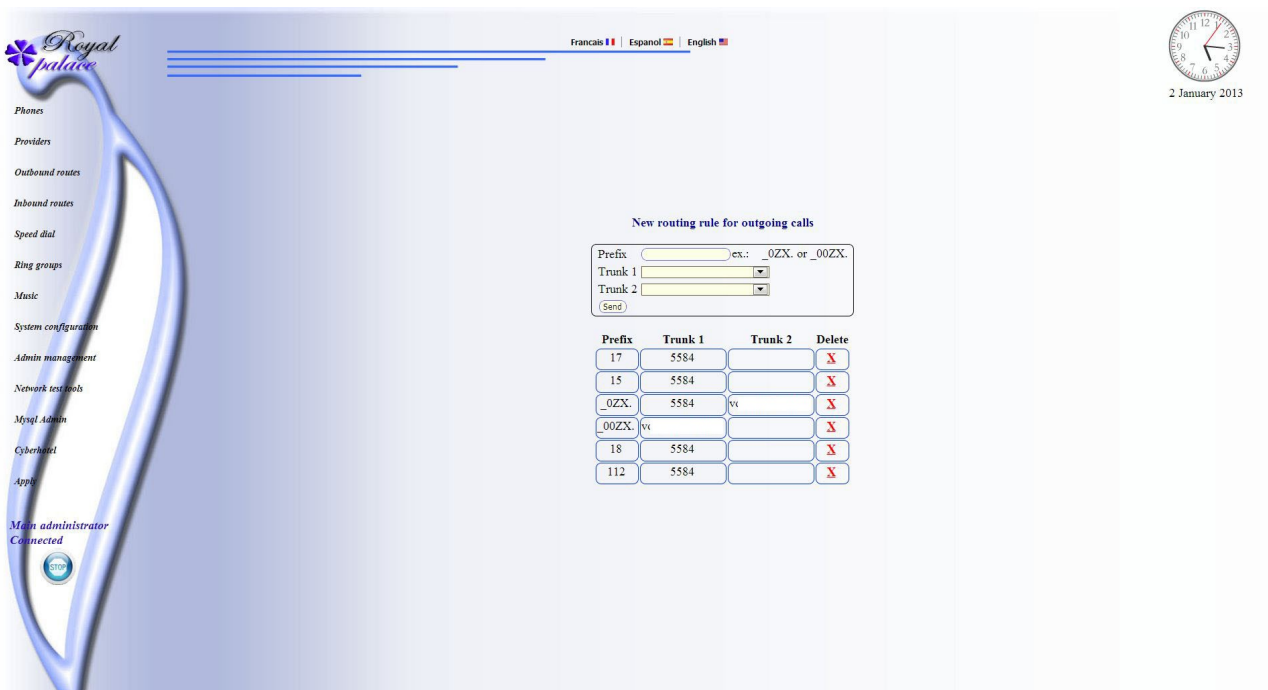
Note the exceptional simplicity of these actions

Direct display in green or red line state and a direct link to the terminal.

After creating phones and trunks, go to the outbound routing rules

Outbound routes

You can define 2 trunks for a préfix, backup is very speed if first provider is unavailable



The screenshot shows the 'New routing rule for outgoing calls' form with the following fields:

- Prefix: ex.: _0ZX. or _00ZX.
- Trunk 1:
- Trunk 2:

 A 'Send' button is located below the form.

Below the form is a table listing existing routing rules:

Prefix	Trunk 1	Trunk 2	Delete
17	5584		X
15	5584		X
_0ZX.	5584	vx	X
00ZX.	vx		X
18	5584		X
112	5584		X

Inbound routes set destination to a phone or a ring-group

The screenshot shows the 'New DID number' configuration page in the Royal Palace PBX web interface. The left sidebar contains a navigation menu with items like 'Phones', 'Providers', 'Outbound routes', 'Inbound routes', 'Speed dial', 'Ring groups', 'Music', 'System configuration', 'Admin management', 'Network test tools', 'Mysql Admin', 'Cyberhelp', and 'Apply'. The main content area has a header with language options (Français, Español, English) and a clock showing 2 January 2013. The 'New DID number' section includes a 'Number' input field, a 'Destination' dropdown menu set to 'STANDARD-5000', and a 'Send' button. Below this is a 'DID LIST' table with three entries:

DID LIST			
03541	0490203541	6500	delete
65501	33469665501	6500	delete
85584	0950285584	6500	delete

Speed dial / directory

Just enter name and phone number and select a short number

The screenshot shows the 'SPEED DIAL' configuration page in the Royal Palace PBX web interface. The left sidebar is identical to the previous screenshot. The main content area has a header with language options and a clock showing 2 January 2013. The 'SPEED DIAL' section includes a 'LIST' table with one entry:

LIST		
6000	Comdif Telecom	33469665501 delete

Below the list is a 'New contact speed-dial' form with fields for 'Name', 'Destination', and 'Speed dial number'. The 'Speed dial number' dropdown is set to '6001'. There is an 'Envoyer' button at the bottom of the form.

Ring groups

Choose the scenario during an incoming call on a ring group

RING GROUPS

New Ring Group

Name: Group name
 Member: Select Ring group member
 Member: Select Ring group member
 Member: Select Ring group member
 Member: Select Ring group member

Destination: Destination if no answer
 Select: Group number
 Mode: Select Mode

LIST								
Number	Name	Member 1	Member 2	Member 3	Member 4	Mode	NA Destination	Delete
6500	accueil	5000	5100	5200		ringall	5000	delete



2 January 2013

Manage passwords and access level administrator / user

Admin administration

Admins							
Admin-ID	NAME	SURNAME	Company	LOGIN	Last login	Last IP-Address	Action
2					2012-10-30 08:38:37	192.168.0.146	
7					2013-01-02 00:04:50	192.168.0.6	



2 January 2013

Network tools

Includes network informations, network scanner to easily find a terminal address, and a tool to display your Firewall Iptable rules

Informations from server request:
My IP address is: 192.168.20.167
Cyberhotel address is: http://192.168.1.1
Cyberhotel Wan address is: http://192.168.20.171
Cyberhotel Default Gateway is: 192.168.20.1
Cyberhotel First DNS Server is: 192.168.1.1
DNS FROM CONF FILE: nameserver 192.168.1.1

Scan my network

START END IP (eg: 1)

STOP END IP (eg: 254)

Valider

Check FIREWALL rules

Firewall display

Table nat selected

nft Valider

Chain	PREROUTING (policy ACCEPT)	target	prot	opt	source	destination
DNAT	0	--	anywhere		192.168.1.0/24	
DNAT	top	--	anywhere			RIN2 top dpt:veboache to:192.168.1.1:443
DNAT	top	--	anywhere			RIN2 top dpt:ssh to:192.168.1.1:22
DNAT	jump	--	anywhere			RIN2 to:192.168.1.1
REDIRECT	0	--	anywhere			RIN2 TRIGGER type:dnat match:0 relate:0
REDIRECT	top	--	anywhere			RIN2 top redir ports 80

Chain	POSTROUTING (policy ACCEPT)	target	prot	opt	source	destination
SNAT	0	--	192.168.1.0/24			anywhere to:192.168.20.171
RETURN	0	--	anywhere			anywhere FRITYPE = broadcast
SNAT	0	--	10.0.1.0/24			anywhere to:192.168.20.171
RETURN	0	--	anywhere			anywhere FRITYPE = broadcast
MASQUERADE	0	--	192.168.1.0/24			192.168.1.0/24

Chain	OUTPUT (policy ACCEPT)	target	prot	opt	source	destination
-------	------------------------	--------	------	-----	--------	-------------

General configuration.

Set company information for pdf invoice, set SMTP to activate Email, Set currency
Set VAT, Set design for interface, Set code for door entry, Set unique did number for IVR
(direct cell rooms with code), set your Country Code, Set nat yes or no for phones
Set default language,..

System configuration
Configure here your system.

Company: MyHotel
Name: SA xxx, capital de xxx
Last name:
Tax number: FR xx xxx xxx xxx
Street: 112 Road
Postal code: 90000
City: Town
Country: France
Phone number: +33 xxxxxxxx
Fax number: +33 xxxxxxxx
Email: contact@myhotel

SMTP server to activate voicemail on email example smtp.free.fr WARNING CHANGING SMTP SERVER NEED REBOOT DEVICE
PHONETAX for PHONE and WIFI Enter here the X number eg. 1.196 for 19.6% TAX
Enter the 3 ISO letters for your money USD or EUR: EUR
Design 4 for low resolution 5 to 10 for high resolution: 6
Door phone 6 digits service code:
Door phone hard opencode:
ACTIVATE IVR system, enter phone number:
YOUR true and complet country code exemple 33 for France (bad information will make the call unavailable) could be empty if no need: 33
Default language: FR
Nat for bedroom phones ? yes or no, for security no is the best choice: Yes
WARNING CHANGE THIS ONLY IF YOU KNOW WHAT YOU DO /opt for optware dd-wrt router or empty for classic Linux
Background JPG uploaded: 6
save

Music / messages administration you can upload, set your messages & music

Cyber-wrt offer to upload your own music on hold
First music in path default music is used by system
You can upload another personal music format Wav (mono, 8000Hz rate 64 kbs)
You can upload it in any path then click on Select as default music
wake-up path is reserved for wake-up music on cyberhotel module

Select a path:
Select file to upload: [Choisissez un fichier] [Aucun fichier choisi] [Send]

Music in: /opt/var/lib/asterisk/moh/ ----- [Select as default music](#)

reno_project-system.alaw	Delete
reno_project-system.gsm	Delete
reno_project-system.ulaw	Delete
reno_project-system.g729	Delete
reno_project-system.wav	Delete

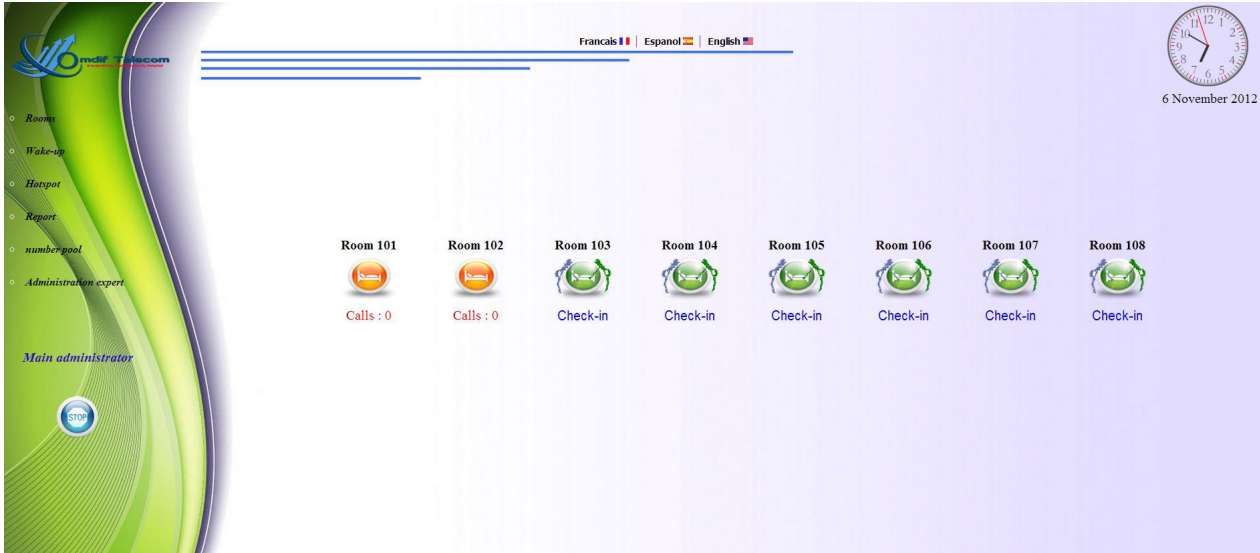
Link to phpMyAdmin for database administration

& Last link to go on Cyberhotel administration

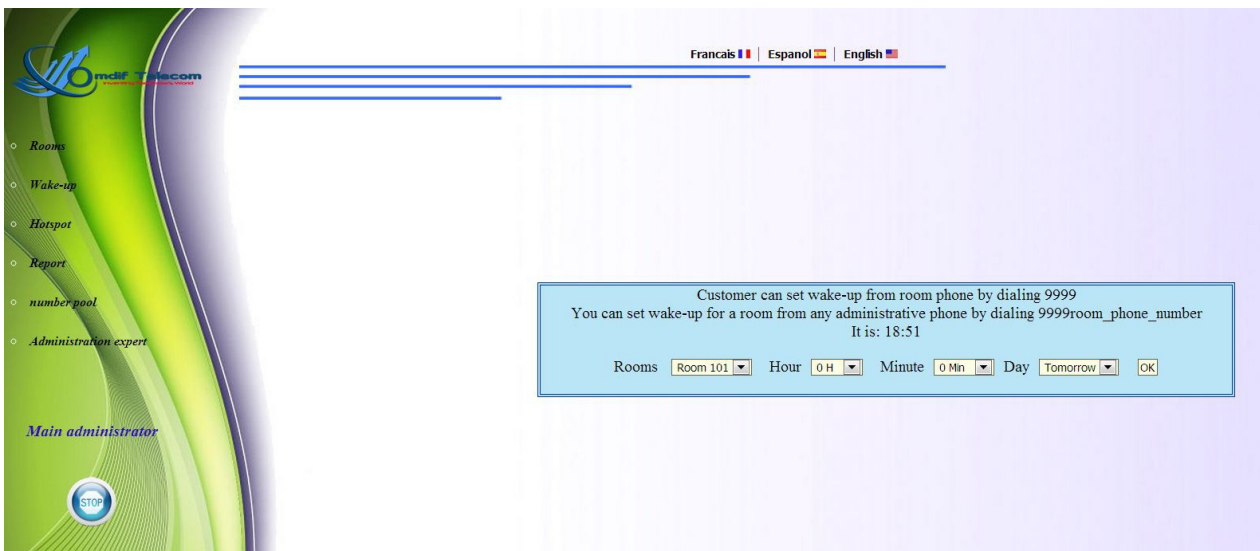
- **OPTION 2** in addition to option 1, an interface and a complete PBX dedicated to the hotel business

direct visualization of rooms state, occupied, free, on phone, billable non-billable, transfer invoice, housekeeping, invoice printing, credit limit.

On check-out room phones can only call internal.



Programmable wake-up on the interface, it also possible from any standard phone or from room phone



Cherry on top cake, a complete Internet access control (captive portal), each room on check-in get login for Wifi access

Our system is fully supported by all access points connected to port 4 of your DD-WRT router Cyberhotel.

When customer connect the network, the system log MAC address, Email address and time.

Interface display all valid user and state online or not
you can close the connection, delete user, create users for a fixed duration

users are automatically deleted at the check-out or time expiration.

Francais | Espanol | English

Rooms
Wake-up
Hotspot
Report
number pool
Administration expert
Main administrator

STOP

WIFI ADMINISTRATION

Type: 1 Jour

Name:

Add new subscriber

User

Username	Password	Expiration	Phone is ready.	Delete
bize	x	N/A	✖	✖
toto	christian@comdif.com	N/A	✔	✖

Calls reporting Buy / Sale / profit

Francais | Espanol | English

Rooms
Wake-up
Hotspot
Report
number pool
Administration expert
Main administrator

STOP

2012-11-06

From : to : Submit Month Day

Billing lists

Sum 0 Calls MINUTES 0 : 0

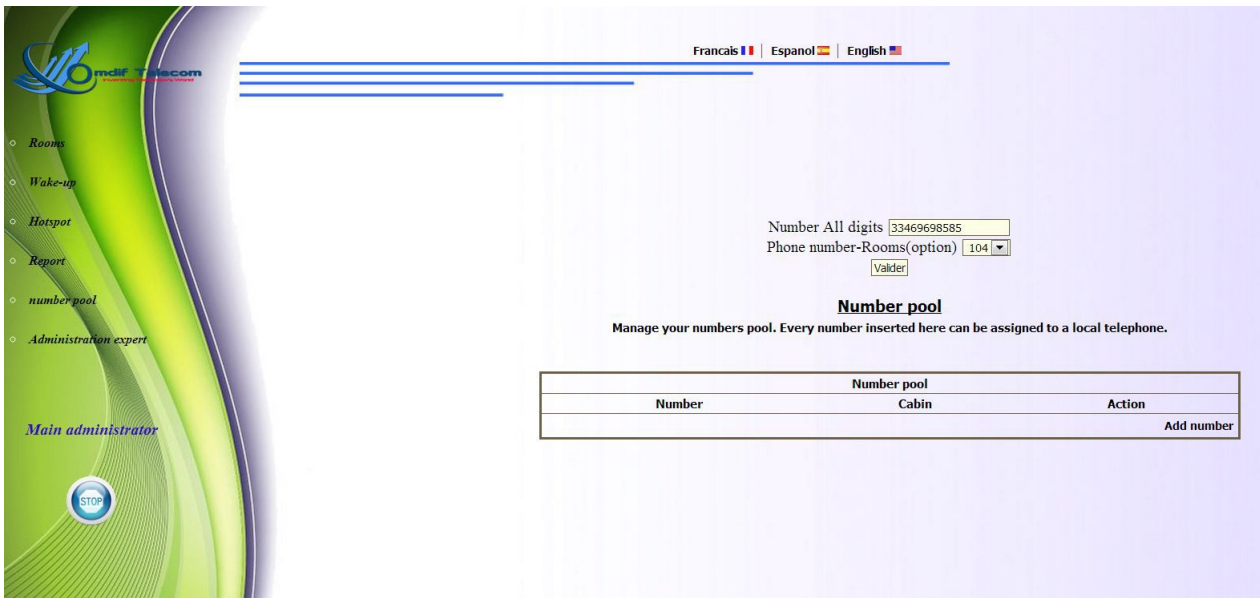
BONUS: 0 Purchase HT: 0 Sale TTC: 0 Purchase TTC: 0

Date	Cabin	Destination	Status	Duration/Sec.	Sale	Purchase
------	-------	-------------	--------	---------------	------	----------

Number pool

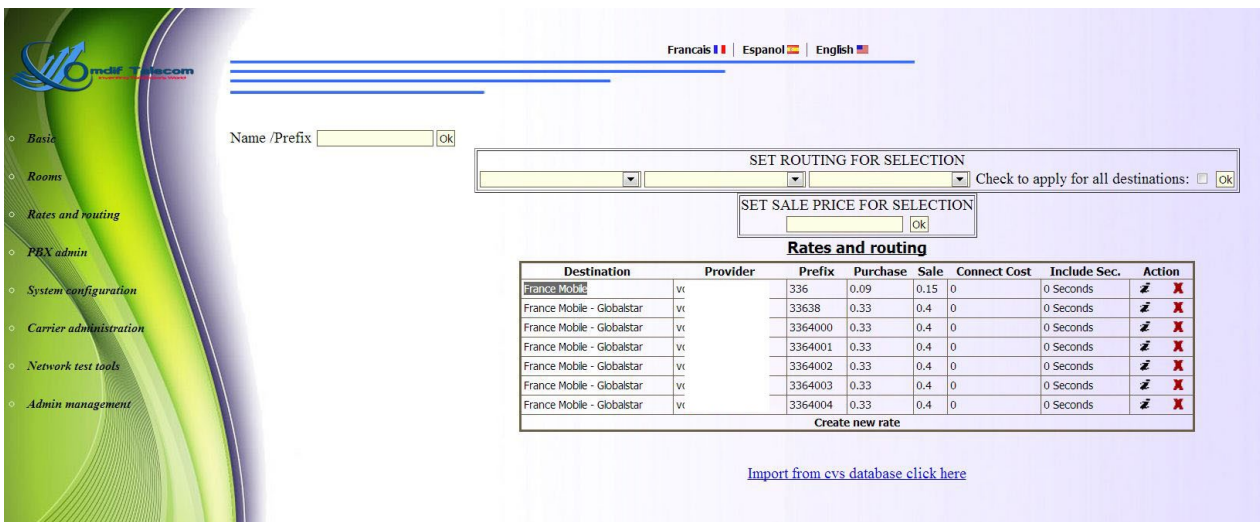
This menu allows you to manage phone numbers for direct external call in the rooms if you want to offer this service.

Cyberhotel DD-WRT also offers a direct call rooms IVR with a single number and a code generated on check-in and erased on check-out



Managing Routing and rates

A complete routing table is pre-installed modifications are made easier by a batch process or importing a new table from text file each destination is able to use several backup in case of failure



Door-entry code management with generated code on check-in, erased on check-out and service code management

To conclude

This platform is also a very high-end router for your network Gigabit Lan, Wifi N, Server / Client VPN, Vlan, insulation, advanced routing, DDNS, QoS, Vlan, Firewall, Keep Alive, Wake on lan, network monitoring, bandwidth ..

With embedded robust and easy PBX suitable for business and an optional full system dedicated to hospitality

A concentration of technology just as big as a book from your library.