### Requirements

- 1. Account with virtual phone number provider Vonage and some credit. To create account go to: https://dashboard.nexmo.com/sign-in
- 2. Following ports open in firewall:
  - TCP ports: 5038,5060 and
  - UDP ports 4569, 5060-5061, 10000-20000

Note: If the server is in HansaWorld hosting, these ports will automatically be opened when Asterisk Server is being configured (this only applies to Amazon and IBM nodes).

 If you are using macOS 10.14 or later, Standard ERP must have access to the microphone. Go to the 'Security & Privacy" panel in System Preferences, select the 'Privacy' tab, select 'Microphone' and finally select the Standard ERP app.

thotos	Allow the same helow to access your microphone
	mon the upper below to access your microphone.
Camera	🛛 🧿 Google Chrome
Juicrophone	Standard ERP
Speech Recognition	GoToMeeting v10.10.1
Accessibility	🗸 🎒 Parallels Desktop
Input Monitoring	
Full Disk Access	
Files and Folders	
O Screen Recording	

Telephony must be activated in Standard ERP >> System
 >> Settings >> Configuration.

•			Configur	ation: U	odate			
								Sav
	Control S	String AW	KNBWAA-GH	9-9V7E8	YP-M6-A	AAAZX-	ALAAABBAV	V-2AA
	Control	Code 358	374128					
	Key Valid	Until		s	Server Hardware Apple Macintosh			osh
Enabler Key		Server OS Mac OS						
Users	Companies	Basic	Verticals	Cash	CRM	HAL	Backups	Technical
Datab	<ul> <li>Massive Ca</li> <li>ODBC</li> <li>TAPI Gatew</li> <li>Data Integri</li> <li>Fax</li> <li>Home Page</li> <li>Offline Mod</li> <li>Accelerator</li> </ul>	ay ty e (GB) 0			Relationa Relationa Limited J Asterisk Telephor BI Dashboa	al Datab Access Gatewa ny	v	Node Node
	Server (	Code						

### **Configuration Steps**

- A. Configuring Local Asterisk server
- B. Configuring Vonage Phone number

#### A. Steps to configure Local Asterisk server

A local Asterisk server will be installed when you run the "Setup Local Asterisk Server" maintenance routine which is located in Telephony module >> Routines >> Maintenance

Pre	ess the Run button to continue	
	Sample: Progress	
	Asterisk Setup	
your	server is downloading components	6
	Sample: Progress	
	Asterisk Setup	
	completed successfully	
· ·		

When the maintenance routine has finished, a folder will be created on the server with all the required files inside.



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phuild Databaea		Eilo Managor			
File Manager					×
Upload File Create Archive	Extract Archive	Rename Archive	Copy File Delete	File	
C Downloads					
Backup					
Asterisk					
🗂 tmp					
Import					
EnablerActions					
Attach					
hansa.pid			2018-12-18	08:30	5 B
TBSETUP.TXT			2018-12-18	08:29	1.1 MiB
known_sessions.dat			2018-12-18	08:31	121 B
HANSA.HDB			2018-12-18	08:37	15.2 MiB
uptime.log			2018-12-18	08:30	40 B
hansa.log			2018-12-18	08:39	17.3 KiB
hal.hob			2018-12-18	08:30	4 B
DatabaseStatus.txt			2018-12-18	08:30	7 B
uptime.tmp			2018-12-18	08:38	20 B

•••	SAMPLE: Order	Vonage Phone I	Number		
			Reload	Sign Up	Order Number
Country United States Vonage Key Vonage Secret Number Prefix	<u></u>				
Number	Туре	Cost			
+12012857081	mobile-lvn	0.90			
+12012857082	mobile-lvn	0.90			
+12012857089	mobile-lvn	0.90			
+12012857133	mobile-lvn	0.90			
+12012857154	mobile-lvn	0.90			
+12012857239	mobile-lvn	0.90			
+12012857303	mobile-lvn	0.90			
+12012857371	mobile-lvn	0.90			
+12012857522	mobile-lvn	0.90			
+12012857602	mobile-lvn	0.90			
+12012857615	mobile-lvn	0.90			
+12012857886	mobile-lvn	0.90			
+12012870269	mobile-lvn	0.90			
+12012937830	mobile-lvn	0.90			
+12012937902	mobile-lvn	0.90			
+12012979409	mobile-lvn	0.90			

### B. Steps to configure Vonage phone number

You can register new Vonage phone number in two ways:

- (I) on the Vonage website
- (II) using a built-in maintenance routine

In this document, we will describe using the built in maintenance routine located in Telephony module >> Routines >> Maintenance >> Configure Vonage Phone Number.

	Buy a Number Ru
PBX Connection LOCAL	
Country United States	
Phone Number	
Caller ID	
Vonage Key	
Vonage Secret	
✓ Create Queue	

PBX Connection: Local

Country: Choose your country

Vonage Key and Secret: public and private keys can be obtained from your Vonage account

Key		Secret	
full-The	(FN)		<b>F</b>

After you have filled in the required information you can proceed by pressing on "Buy a Number". A new window will open listing the numbers that are available to order. Click on a number and then order it by pressing the "Order Number" button above the list.

The Maintenance window will be updated and you can now run it.

•	Buy a Number Ru
PBX Connection LOCAL	
Country United States	
Phone Number 12012857081	
Caller ID +12012857081	
Vonage Key	
Vonage Secret	

## Finishing

Configuration is now complete. As a result:

- all users are configured to Use Built-in Softphone (Persons card >> Asterisk tile)
- all users can receive incoming calls to the chosen Vonage phone number
- all users can make outgoing calls using the chosen Vonage phone number
- externals without users in the Standard ERP system can get SIP client access through Telephony module > Registers > Asterisk Users

