



Принцип совершения звонка:

Для звонка с телефона №1 на телефоны офисной АТС поднимаем трубку, набираем прямой телефонный номер «102» и ждем сигнала вызова абонента. Для звонков в ТфОП поднимаем трубку, набираем префикс выхода в город (настраивается на АТС, обычно 0 или 9), затем набираем прямой городской номер.

Для звонков с телефонов офисной АТС №2 на телефон №1 набираем номера нужной линии «101» соответственно. Так мы обеспечиваем «прозрачный» для пользователей режим работы VoIP канала, работающего через IP сеть.

Необходимо обратить внимание, что номера портов, прописанные на шлюзах, а именно 601, 701 и используются только для служебной адресации, пользователям доступны реальные номера линий АТС.

Настройка DVG-7111S

1. Настраиваем WAN адрес: Setup → Internet Setup

Wizard Internet Setup VoIP Setup LAN Setup Time and Date Logout	<div style="background-color: #f4a460; padding: 5px;">WAN SETUP</div> <p>Use this section to configure your Internet Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.</p> <p> <input type="radio"/> DHCP <input checked="" type="radio"/> Static IP <input type="radio"/> PPPoE <input type="radio"/> PPTP </p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>STATIC IP</p> <p> IP Address : <input type="text" value="192.168.15.71"/> Subnet Mask : <input type="text" value="255.255.255.0"/> Default Gateway IP : <input type="text" value="192.168.15.122"/> MTU : <input type="text" value="1400"/> </p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>DNS</p> <p> Domain Name Server Assignment : <input type="radio"/> Auto <input checked="" type="radio"/> Manual Domain Name Server (Primary) IP : <input type="text" value="192.168.15.54"/> Domain Name Server (Secondary) IP : <input type="text"/> </p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>MAC</p> <p> Factory Default MAC Address : 00:22:B0:4F:54:8E <input type="button" value="Restore"/> Your MAC Address : 00:22:B0:DE:0E:AD <input type="button" value="Clone"/> Current MAC Address : <input type="text"/> (xx:xx:xx:xx:xx:xx) </p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>VLAN</p> <p><input type="checkbox"/> Enable VLAN Tagging</p> </div> <p style="text-align: center;"> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> </p> <p style="text-align: center; color: red; font-size: small;">New settings will take effect after Save & Restart.</p>	<p>Helpful Hints...</p> <p>When configuring the VoIP router to access the Internet, be sure to choose the correct Internet Connection Type.</p> <p>If you are unsure of which option to choose and having trouble accessing the Internet through the router, please verify them with your Internet Service Provider (ISP) if needed.</p> <p style="color: orange;">More...</p>
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2. Отключаем регистрацию на всех SIP Proxy серверах, задаем порту FXO номера 601.

Site Map Firmware Version: GE_1.00

D-Link

DVG-7111SSETUPADVANCEDMAINTENANCESTATUSHELP

Wizard

Internet Setup

VoIP Setup

LAN Setup

Time and Date

Logout

VOIP SETTINGS

The device can set up multiple SIP proxy servers for load balancing on the same ITSP to get the better response, and high availability.

PROXY SERVER

Proxy Status	ITSP Name	Proxy Server IP	Proxy Server Port	
Disable		192.168.1.1	5060	
Disable		192.168.15.200	5060	
Disable		192.168.1.1	5060	

Edit

Helpful Hints...

As there are various Proxy Server providers, according to RFC standard, it has designed the gateway to be compatible with them. If any registration problem occurs, please consult your Internet telephony Server Provider.

More...

BROADBAND

PHONE 2 - FXO

Number :

Register

Invite with ID / Account

User ID / Account :

Password :

Confirm Password :

3. Задаем в адресной книге номера для перевода звонков на шлюз FXS
(Advanced → VoIP → Phone Book)

Site Map Firmware Version: GE_1.00

D-Link

DVG-7111S

SETUP **ADVANCED** MAINTENANCE STATUS HELP

VoIP

Access Control

Firewall and DMZ

Advanced Network

Logout

PHONE BOOK

It has 100 phone numbers to restore into a phone book and provides an IP address query when calling to other gateway(s).

Gateway Name	Gateway Number	IP / Domain Name	Port
fxs2102	701	192.168.15.221	5060

Add

Gateway Name : fxs2102

Gateway Number : 701

IP / Domain Name : 192.168.15.221

Port : 5060

Apply Cancel

New settings will take effect after [Save & Restart](#).

BROADBAND

Helpful Hints...

Gateway Name: Enter another gateway's code or an easy-to-remember name. This parameter is optional.

Gateway Number: Enter the desired number of another gateway.

IP/Domain Name: Enter the IP address or URL (Uniform Resource Locator) of another gateway.

Port: Enter another gateway's listen port.

[More...](#)

4. Включаем режим HotLine, указываем номера портов FXS удаленного шлюза
(Advanced → VoIP → Hot Line)

PHONE 2 - FXO	
<input checked="" type="checkbox"/> Hot Line	
Hot Line No. :	<input type="text" value="701"/>
Warm Line (Hot Line Delay) :	<input type="text" value="0"/> (0 - 60 s)
Dial-Out Prefix :	<input type="text"/>
FXO Line Default Dial-Out :	<input type="text"/>
FXO Line VoIP call in option : <input type="text" value="Caller Indicate Dial-Out"/> ▾	
Trunk Incoming Prompt Voice :	<input type="text" value="Default Greeting"/> ▾
<input checked="" type="checkbox"/> Enable FXO / Trunk Extension Number	
<input checked="" type="checkbox"/> Pick up Line by Dialing Extension Number	
Ring count before FXO pick up :	<input type="text" value="1"/> (0 - 999 s)
Transit In Busy Tone Limit :	<input type="text" value="3"/> (0 - 60 s)
<input checked="" type="checkbox"/> Detect FXO Line Presence	

Применяем настройки, перезагружаем шлюз.

Настройка DVG-2102s:

1. Настраиваем WAN адрес

The screenshot shows the WAN Setup configuration page for the DVG-2102s router. The interface includes a navigation menu on the left with options like Wizard, Internet Setup, VoIP Setup, Time and Date, and Logout. The main content area is divided into sections: WAN SETUP, STATIC IP, WAN ALIAS, and DNS. The STATIC IP section is highlighted with a red box, showing the following values: IP Address: 192.168.15.221, Subnet Mask: 255.255.255.0, Default Gateway IP: 192.168.15.71, and MTU: 1500. The WAN ALIAS section shows IP Address: 192.168.8.254 and Subnet Mask: 255.255.255.0. The DNS section shows Domain Name Server Assignment set to Manual, with a Primary IP of 192.168.15.56 and a Secondary IP field that is empty. A helpful hints sidebar on the right provides instructions on choosing the correct Internet Connection Type and consulting the ISP if needed.

D-Link

DVG-2102s // SETUP ADVANCED MAINTENANCE STATUS HELP

Wizard
Internet Setup
VoIP Setup
Time and Date
Logout

WAN SETUP

Use this section to configure your Internet Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

DHCP
 Static IP
 PPPoE
 PPTP
 L2TP

STATIC IP

IP Address : 192.168.15.221
Subnet Mask : 255.255.255.0
Default Gateway IP : 192.168.15.71
MTU : 1500

WAN ALIAS

IP Address : 192.168.8.254
Subnet Mask : 255.255.255.0

DNS

Domain Name Server Assignment : Auto Manual
Domain Name Server (Primary) IP : 192.168.15.56
Domain Name Server (Secondary) IP :

Helpful Hints...
When configuring the router to access the Internet, be sure to choose the correct **Internet Connection Type**.
If you are unsure of which option to choose and having trouble accessing the Internet through the router, Please verify them with your **Internet Service Provider (ISP)** if needed.
More...

2. Отключаем регистрацию на всех SIP Proxy серверах, задаем порту FXS номер 701:

The screenshot shows the VoIP Settings configuration page for the DVG-2102s router. The interface includes a navigation menu on the left with options like Wizard, Internet Setup, VoIP Setup, Time and Date, and Logout. The main content area is divided into sections: VOIP SETTINGS and PROXY SERVER. The PROXY SERVER section contains a table with three rows of proxy server configurations. The first row is enabled with IP 192.168.15.200 and port 5060. The second and third rows are disabled with IP sipnet.ru and 192.168.1.1 respectively, both with port 5060. A red 'Edit' label with a downward arrow points to the first row. The helpful hints sidebar on the right explains that the gateway is designed to be compatible with various Proxy Server providers according to RFC standards and advises consulting the ISP if registration problems occur. The bottom of the page features a 'BROADBAND' label.

Site Map Firmware Version: GE_1.00

D-Link

DVG-2102s // SETUP ADVANCED MAINTENANCE STATUS HELP

Wizard
Internet Setup
VoIP Setup
Time and Date
Logout

VOIP SETTINGS

The device can set up multiple SIP proxy servers for load balancing on the same ITSP to get the better response, and high availability.

PROXY SERVER

	Proxy Status	ITSP Name	Proxy Server IP	Proxy Server Port	Edit
1	Enable		192.168.15.200	5060	
2	Disable		sipnet.ru	5060	
3	Disable		192.168.1.1	5060	

Helpful Hints...
As there are various Proxy Server providers, according to RFC standard, it has designed the gateway to be compatible with them. If any registration problem occurs, please consult your Internet telephony Server Provider.
More...

BROADBAND

Wizard

Internet Setup

VoIP Setup

Time and Date

Logout

LAN Setup

SIP PROXY SERVER / SOFTSWITCH HOST SETTING

As there are various Proxy Server providers, according to RFC standard, it has designed the gateway to be compatible with them. If any registration problem occurs, please consult your Internet telephony Server Provider.

SOFT SWITCH SETTING

Enable Support of SIP Proxy Server / Soft Switch

FXS REPRESENTATIVE NUMBER

Number :
 Register
User ID / Account :
Password :
Confirm Password :

PHONE 1 - FXS

Number :
 Register
 Invite with ID / Account
User ID / Account :
Password :
Confirm Password :

PHONE 2 - FXS

Number :
 Register
 Invite with ID / Account
User ID / Account :
Password :
Confirm Password :

3. Задаем в адресной книге номера для перевода звонков на FXO порт шлюза DVG-7111s

The screenshot shows the D-Link web interface for a DVG-2102S device. The 'ADVANCED' tab is selected, and the 'PHONE BOOK' sub-tab is active. A table lists a gateway with the following details:

Gateway Name	Gateway Number	IP / Domain Name	Port
7111	601	192.168.15.71	5060

Below the table is an 'Add' button. A form for adding a new gateway is shown with the following fields:

- Gateway Name : 7111
- Gateway Number : 601
- IP / Domain Name : 192.168.15.71
- Port : 5060

Buttons for 'Apply' and 'Cancel' are present. A note at the bottom states: 'New settings will take effect after [Save & Restart](#).'

4. Включаем режим HotLine, указываем номера портов FXO удаленного шлюза (Advanced → VoIP → Hot Line)

The screenshot shows the D-Link web interface for configuring VoIP settings on a DVG-2102S device. The 'ADVANCED' tab is selected, and the 'HOT LINE' section is active. The 'PHONE 1 - FXS' section has the 'Hot Line' checkbox checked, with 'Hot Line No.' set to 601 and 'Warm Line (Hot Line Delay)' set to 0 seconds. The 'PHONE 2 - FXS' section has the 'Hot Line' checkbox unchecked, with 'Hot Line No.' set to 2 and 'Warm Line (Hot Line Delay)' set to 2 seconds. The 'VoIP' menu item in the left sidebar is highlighted. At the bottom, there are 'Apply' and 'Cancel' buttons, and a note that new settings will take effect after a save and restart.

D-Link

DVG-2102S //

SETUP **ADVANCED** MAINTENANCE STATUS

VoIP

DoS Protection

Advanced Network

Logout

HOT LINE

Hot Line No.: Enter the hotline number for an automatic dialing function.

Warm Line: When the Warm Line function is in use, user can dial a number. Otherwise the system will divert incoming calls from an outside line to the Hot Line Number after a set wait time.

PHONE 1 - FXS

Hot Line

Hot Line No. : 601

Warm Line (Hot Line Delay) : 0 (0 - 60 s)

PHONE 2 - FXS

Hot Line

Hot Line No. : 2

Warm Line (Hot Line Delay) : 2 (0 - 60 s)

Apply Cancel

New settings will take effect after [Save & Restart](#).

Применяем настройки, перезагружаем шлюз.

Все остальные параметры, включая кодеки, задержки, имена и пароли, и т.д. настраиваются по своему усмотрению, в зависимости от условий эксплуатации.