

# **DVG Quick Start Guide**

***Release .01***

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# Introduction

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## 1.1 Scope

The DVG Quick Start Guide is designed to help you setup a simple point to point stream gate application.

## 1.2 Getting Started

The quick start guide assumes the following:

- Two licensed DVG software instances or devices
- 2 Internet connections or a simulated internet test bench
- A PC connected to a network switch
- A IP encoder (optional)
- - An IP decoder**
    - A PC with IP stream decoding software, for example VLC
    - A dedicated IP decoder box and view screen
- RJ-45 cables

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**Note** This quick start guide assumes that the reader has a configured internet connection or can simulate then Internet in the test bench.

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## Unit Setup

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To setup a protected stream using two DVGs you will need to connect them to the internet or the simulated internet test bench. One DVG will be used as the sender/protector and the other will be used as the receiver/sentinel.

To connect the DVG instances to the test setup:

1. On the sender side, connect an RJ-45 cable from the source of the stream to physical port #1.
2. On the sender side, connect an RJ-45 cable from physical port #2 to the router.
3. On the sender side, connect an RJ-45 cable from the physical port Mgmt to the management switch.
4. On the receiver side, connect an RJ-45 cable from physical port #1 to the decoder.
5. On the receiver side, connect an RJ-45 cable from physical port #2 to the router.
6. On the receiver side, connect an RJ-45 cable from the physical port Mgmt to the management switch.
7. Connect an RJ-45 cable from the management switch to the management PC.

The following diagram shows how to connect the physical interfaces to the routers or the internet test bench.

## 2.1 Port Configuration

After the devices have been connected physically, the ports will need to be configured.

### 2.1.1 Configuring the Management Port

The management port is used to access the management user interface.

#### Procedure

1. Access the DVG through the default address [http://<ip\\_address>](http://<ip_address>).
2. Log in to the device using the userid/pass admin/admin.
3. Click the edit private menu.
4. Click the Configuration tab.
5. In the configuration tree, navigate to System > Management > Management\_IP.
6. Click on the Set-If leaf.

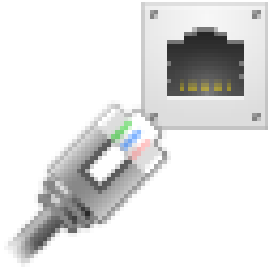
7. In the Ip Address field, enter a management IP address.
8. In the subnet mask field, enter a subnet mask or leave the default.
9. In the Gateway field, enter a gateway address. (optional)
10. Click Perform to save the address.
11. The machine will need to be rebooted for the address to be saved.

*Repeat the above procedure on the second DVG unit..*

## 2.1.2 Configuring Data Ports

The DVG units will connect to the internet and to either an encoder or a decoder using the physical interfaces of the unit. Physical interfaces are configured using the quick configure icons. **Configure the interfaces on both DVG units using the procedures in this section.**

### Procedure



1. Click the icon to open the Add/Edit Ethernet Port configuration window.



Edit Configuration - Google Chrome

Not secure | 192.168.0.227/editEthernet.html

## Add/Edit Ethernet Port

Port Number  
-- ▾

Port Name

DHCP ☐

IP Address  
 .  .  .  ⓘ

Subnet Mask  
 .  .  .  ⓘ

Default Gateway  
 .  .  .  ⓘ

Gateway Priority  
-- ▾

Send

1. In the Port Number pane, select a port number.

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**Note** Each port number corresponds to a physical interface. Port numbers that is greater than the number of physical interfaces on the unit cannot be added.

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1. In the Port Name pane, enter a name for the port.
2. in the IP Address field, enter an IP address.
3. In the Subnet Mask pane, enter a subnet mask.
4. In the Default Gateway pane, enter a default gateway (optional).
5. In the Gateway Priority pane, select a value from the drop-down list.
6. Click Send to save the configuration.

*Repeat this procedure for all the required interfaces.*



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## Connectivity Setup

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After the DVG units physical interfaces have been configured, it is necessary to connect the DVGs to each other. In order to ensure that multicast streams will be routed over the internet a VPN will be used.

### 3.1 Configuring UDP VPN

The UDP VPN connection is made up of a client and a server. The client and server are independent from the sender and the receiver.

#### 3.1.1 Configuring the UDP VPN Server

The UDP VPN Server is used to host client connections.

##### Procedure

1. Click on the  icon to open the Add VPN configuration window.

### Add VPN

Operation Mode  
UDP-VPN Server ▾

UDP-VPN Server:

Name

IP Address  
 .  .  .  📌

URL

Interface  
-- ▾

 📌

Port	Name	Net	Encryption
No records found.			

Send

2. In the Operation Mode pane, select UDP-VPN Server from the drop-down list.
3. In the Name pane, enter a name.
4. In the IP Address field enter an IP address for the server.
5. In the URL pane, enter a URL for the server.
6. In the interface pane, select from the drop-down list the interface with the configured the internet connection.
7. Click Send to save the configuration.  
After the server has been configured, the UDP VPN client files need to be built.

### 3.1.2 Building the UDP VPN Client Files

The UDP VPN client files are needed to connect to the UDP VPN server. The client files are built on the server and then uploaded to the unit that will be the client.

#### Procedure

1. Click the Tools tab, then click the File Operations menu, then click the UDP VPN menu, then click on the download menu item.
2. On the Remote Client line, select the name of the server from the drop-down menu.
3. Click download to download the client files.

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**Note** Client files need to be saved on the management PC, or on a disk on key, in order to upload them on the client unit.

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### 3.1.3 Uploading the UDP VPN Client

The UDP VPN client file needs to be uploaded to the client DVG unit. Then it needs to be activated.

#### Procedure



1. Click the icon to open the Add VPN configuration window.

### Add VPN

**Operation Mode**  
Client

**Client:**

**Upload EasyLink Client:**  
Select client file : Choose File No file chosen Upload

**Upload UDP-VPN Client:**  
Select client file : Choose File No file chosen Upload

2. In the In the Operation Mode pane, select Client form the drop-down list.
3. In the Upload client pane, select a client file by clicking the Choose File button. Navigate to the location of the saved file, then select it and click open.
4. Click Upload to upload the client file.
5. In the VPN name field, enter a logical name for the VPN.
6. In the Bind to Interface field, from the drop-down list select the physical interface the client will use to connect to the server.
7. Click the Click Here link to activate the client file.



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**Stream Setup**





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## Statistics and Monitoring

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