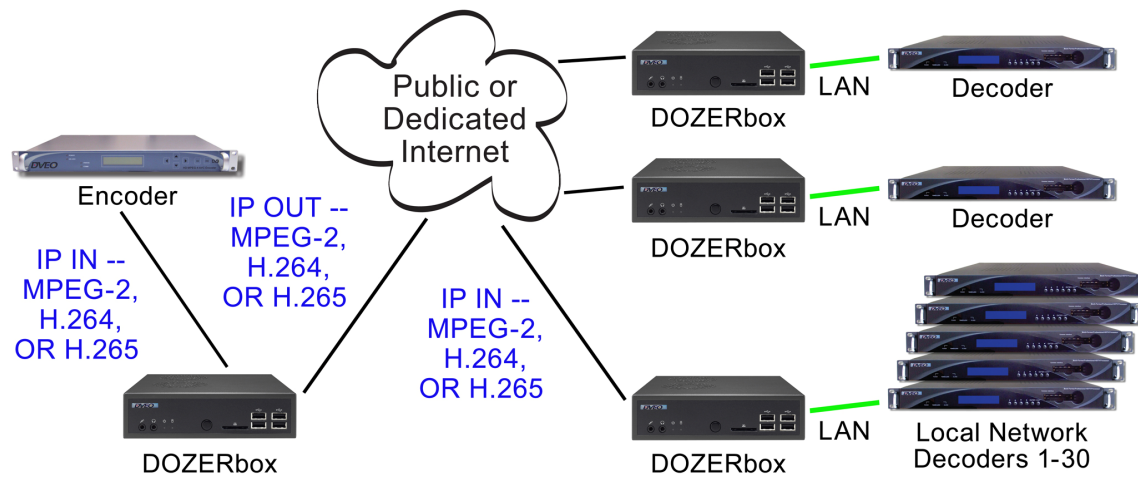




Transmitter Quick Start Stream Setup Guide



May 19, 2017

DOZERbox Transmitter Quick Start Stream Setup Guide

Using the DVEO Web GUI you are able to set up all your inputs, create outputs and monitor your channels from any browser that has access to the unit. This Guide is for the DOZERbox Transmitter and how to send your channels to the DOZERbox Receiver.

Step 1: Modify the network settings or IP address on DVEO unit to work with the network you prefer to use. If this is not needed then proceed to Step 2.

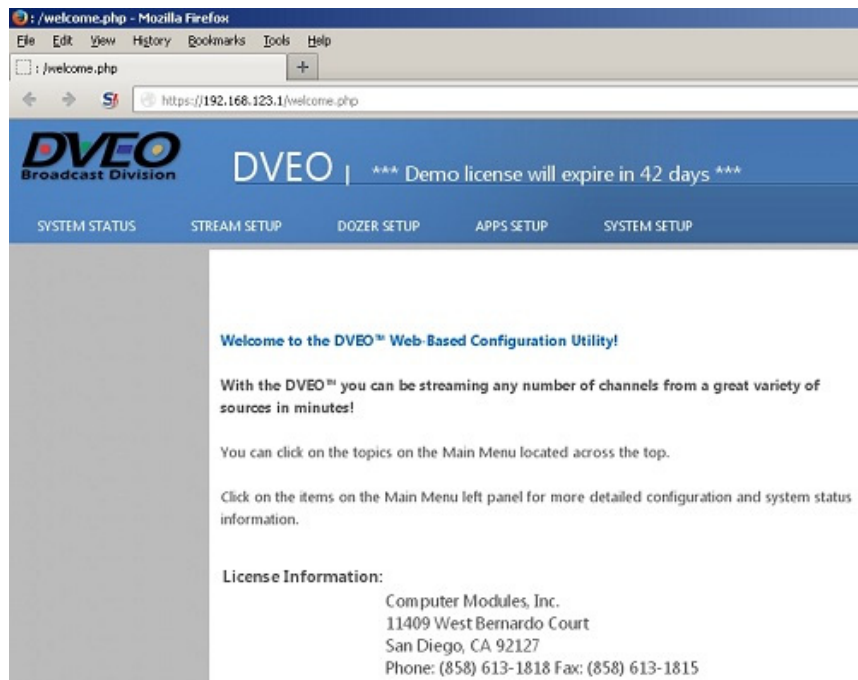


Fig1

1. When you first login to the Web GUI it will show multiple Tabs on top as shown in Fig1
2. First click on System Setup Tab on the far right



Fig2

3. After entering System Setup, to enter Network Settings click on Network Setup on left column as shown in Fig2.

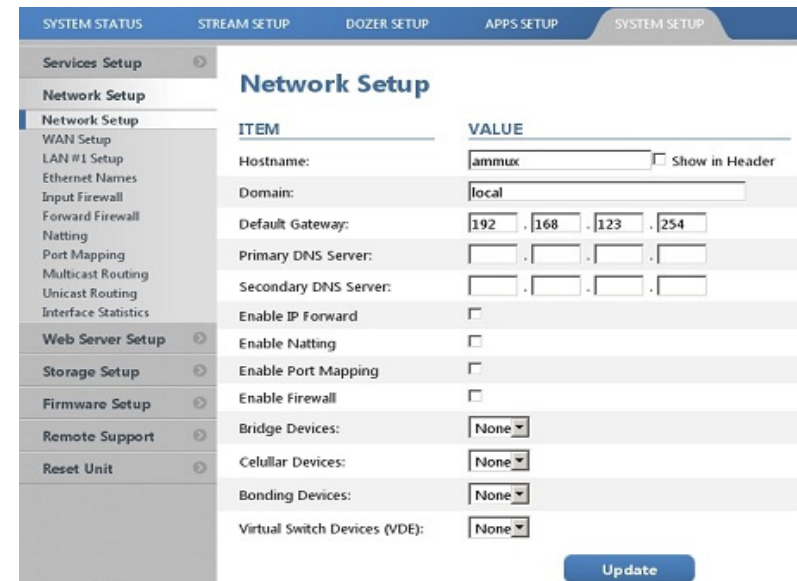


Fig3

4. On the Network Setup page shown in Fig3 you can edit your gateway address and dns. The gateway address is the same IP address of the router. If you do not know what the address is you can go to a PC that is connected to the router, click on the network connection, then click on details, there it will show you the gateway used. You may also go

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to Command Prompt and type in Ipconfig to see the gateway being used. Type in any changes, then hit Update on the bottom of the page to save settings.

5. To change the WAN or Port1 IP address of the unit click on WAN Setup on Left Column as shown in Fig3.

ITEM	VALUE
Interface Mode:	Separate
LAN Name:	wan
LAN DHCP	Disabled
LAN IP Address:	192 . 168 . 123 . 254
LAN Net Mask:	255 . 255 . 255 . 0
LAN MAC Address:	
Enable DHCP Server:	☐
DHCP Server IP Range:	192.168.1.20 to 192.168.1.200
DHCP Server Lease Time (seconds):	2 Hours

Update

Fig4

6. On the WAN Setup page shown in Fig4 you can edit the WAN (Port1) IP address of the unit and subnet mask. To save any changes you must hit Update on the bottom of the page.
7. To change the LAN or Port2 IP address of the unit click on Lan#1 Setup on the left column as shown in Fig3 or Fig4.

ITEM	VALUE
Interface Mode:	Separate
LAN Name:	lan1
LAN DHCP	Disabled
LAN IP Address:	172 . 16 . 1 . 1
LAN Net Mask:	255 . 255 . 255 . 0
LAN MAC Address:	
Enable DHCP Server:	☐
DHCP Server IP Range:	172.16.1.20 to 172.16.1.200
DHCP Server Lease Time (seconds):	2 Hours

Update

Fig5

8. On the LAN Setup page shown in Fig5 you can edit the LAN (Port2) IP address of the unit and subnet mask. To save any changes you must hit Update on the bottom of the page.
9. To apply any changes made in Network setup you must reboot the unit. To reboot the unit click on Reset Unit on the left column as shown in Fig3, Fig4, or Fig5.

Reset Unit

WOULD YOU LIKE RESTART ALL THE DVB STREAMS?

Reset All Streams Now

WOULD YOU LIKE TO RESET THE UNIT TO FACTORY DEFAULTS OR SHUT IT DOWN?

Reset to Factory Defaults

Power Off

WOULD YOU LIKE TO REBOOT THE UNIT?

Reboot Now

Fig6

10. On the Reset Unit page as shown in Fig6, to reboot the box click on Reboot Now on the bottom of the page and hit OK. After the unit comes back on, your new IP settings will be applied.

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Step 2: Setting Up Dozer Transmitter Application to Transmit to Dozer Receiver

The screenshot shows the 'Dozer Client Setup' page. The left sidebar has tabs for 'SYSTEM STATUS', 'STREAM SETUP', 'DOZER SETUP' (selected), 'APPS SETUP', and 'SYSTEM SETUP'. Under 'DOZER SETUP', there are sub-tabs for 'Tunnel Setup' and 'Dozer Client #2' (selected). The main area is titled 'Dozer Client Setup' and contains a table with 'ITEM' and 'VALUE' columns. The items are: Start Mode (Always On), Dozer Client Name (dveo), Max Bitrate (5 Mbps), Connection Options (Log Level: Medium, Encryption: AES-128), Tunnel Index (1), and Shared Secret (test). An 'Update' button is at the bottom right.

ITEM	VALUE
Start Mode:	Always On
Dozer Client Name:	dveo
Max Bitrate:	5 Mbps
Connection Options:	Log Level: Medium Encryption: AES-128
Tunnel Index:	1
Shared Secret:	test

Fig7

1. Click on Dozer Setup Tab to set up Transmitter application to send to Dozer Receiver as shown in Fig7.
2. On the Dozer Transmitter Setup page shown in Fig7 set the following parameters.
3. **Start Mode:** Use Always On if you want the unit to start channel automatically following a reboot or power down. Use Manual if you want to manually start and stop your channels.
4. **Dozer Transmitter Name:** Put in a name to describe the channels you are sending to the Receiver.
5. **Max Bitrate:** Using the drop down select the maximum bit rate of all your channels that will be sent to the target.
6. **Connection Options:** Select the Log Level desired to monitor log info.
7. **Tunnel Index:** Default is set to 1, must not use same tunnel number for point to multi point workflows.
8. **Shared Secret:** Type in key for encryption.
9. To save any changes click on Update button on page.
10. To apply any changes click on Start/Restart on the Service Tab in the top right corner as shown in Fig9.

The screenshot shows the 'Dozer Target Setup' page. The left sidebar is the same as Fig7. The main area is titled 'Dozer Target Setup' and contains a table with 'ITEM' and 'VALUE' columns. The items are: Enabled (checked), Target Name (receiver), Bind Information (optional) (Interface: All, Local Port: auto), Server Address (IP/DNS: 192.168.1.188, Port: 1241), Credentials (Username: dveo, Password: dveo123), Packet Recovery (Enabled), Packet Recovery Buffer (ms) (Min: 200, Max: 2500), and Retransmission Interval (ms) (Min: 40, Max: 500). An 'Update' button is at the bottom right.

ITEM	VALUE
Enabled:	☒
Target Name:	receiver
Bind Information (optional):	Interface: All Local Port: auto
Server Address:	IP/DNS: 192.168.1.188 Port: 1241
Credentials:	Username: dveo Password: dveo123
Packet Recovery:	Enabled
Packet Recovery Buffer (ms):	Min: 200 Max: 2500
Retransmission Interval (ms):	Min: 40 Max: 500

Fig8

11. Click on the Dozer Target Setup page shown in Fig8. Set the following parameters.
12. **Enabled:** Check the box to enable target.
13. **Target Name:** Put in a name to describe the target.
14. **Bind Information:** Use default settings.
15. **Receiver Address:** Type in the Dozer Receiver address along with the port number. Default port number of the Receiver is 1241.
16. **Credentials:** Type in username and password for authentication.
17. **Packet Recovery Buffer:** Use default settings.
18. **Retransmission Interval:** Use default settings.
19. To save any changes click on Update button on page.
20. To apply any changes click on Start/Restart on the Service Tab in the top right corner as shown in Fig9.

The screenshot shows the 'Service Control' panel. It has a green 'ON' status indicator and a right arrow. Below are four buttons: Stop, Start, Restart, and View Log. At the bottom, there is a log entry: 'up (pid 5660) 459 seconds, normally down [2014-02-24 11:46:50] 000456.024446 [PONG] Instant RTT: 0[ms]'.

Fig9

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Step 3: Setting Up your Channels to Send to Dozer Receiver

SYSTEM STATUS STREAM SETUP DOZER SETUP APPS SETUP SYSTEM SETUP

Output Profiles

TEST Pattern Setup

NET: 1

Input Setup

Out: test

New Output

NET #2 Setup

NET: 1

Input Setup

ITEM	VALUE	UPDATE
Start Mode:	Always On	
NET Name:	1	
Input Protocol:	udp	
Input Type:	Unicast	
Input Interface:	wan => eth0, 192.168.1.190	
Input Port:	2000	
Input Buffer Size (ms):	300	

Show Advanced ...

Update

Fig10

1. First click on Stream Setup Tab, then on the left column click on Net1 setup as shown in Fig10.
2. On the Net1 Input Setup page set the following parameters.
3. **Start Mode:** Use Always On if you want the unit to start the channel automatically following a reboot or power down. Use Manual if you want to manually start and stop your channels.
4. **Net Name:** Put in name to describe Input.
5. **Input Protocol:** Use Default Setting.
6. **Input Type:** In the drop down select Unicast or Multicast depending on the source. If source is Multicast, after selection type in Multicast IP address.
7. **Input Interface:** In the drop down select interface the source is on.
8. **Input Port:** Type in input port of source.
9. **Input Buffer:** Use default settings.
10. To save any changes click on Update button on page.
11. Once an output is set up, click on Start/Restart on the Service Tab in the top right corner as shown in Fig9 to apply any changes.

SYSTEM STATUS STREAM SETUP DOZER SETUP APPS SETUP SYSTEM SETUP

Output Profiles

TEST Pattern Setup

NET: 1

Input Setup

Out: test

New Output

NET #2 Setup

NET: 1

Out: test

ITEM	VALUE
Output Profile:	None What's this?
Enabled:	☒
Stream Name:	test
Output Format:	Add traffic to Dozer Client: dreo
Demux Mode:	Select All
Dozer Stream:	ID: 1 Type: Multicast
Output Buffer Size (ms):	300 What's this?
Valid Input Video Codecs:	MPEG-1, MPEG-2, MPEG-4, H264V
Valid Input Audio Codecs:	MPEG-1, MPEG-2, MPEG-3, AC3, MPEG4
Output PID Control:	Auto Assign
Mux Cache (ms):	200 What's this?

Apply

Fig11

12. Click on New Output or existing output on the left column as shown in Fig11.
13. On the Net1 Output page set the following parameters.
14. **Enabled:** Check box to enable output.
15. **Stream Name:** Put in a name to describe output.
16. **Output Format:** Use drop down and find the Dozer Transmitter name you set up previously in Step 2:#4.
17. **Demux Mode:** For Single Program Sources SPTS use "Select All", For Multiple Program Sources MPTS select "Use Program ID". If Use Program ID is selected enter program Id channel you want to send to Dozer Receiver.
18. **Dozer Stream:** Enter ID number for output. This must not be the same as other outputs if multiple outputs are created.
19. All other parameters may use default settings.
20. To save any changes click on Update button on page.
21. Once both Dozer Transmitter and Receiver have been set up, to apply any changes click on Start/Restart on the Service Tab in the top right corner as shown in Fig9.
22. To create additional output click on New Output on Left Column and follow steps above.

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