# UltrA Simulator

## Frame Simulator

The frame simulator uses a VM VirtualBox Virtual Machine to run the Ultra software application. The simulator cannot pass video, but can be used to create offline switcher sets, prepare for upcoming shows, or training.

The simulator must be used along with DashBoard, similar to a physical frame. The simulator provides the frame software and DashBoard the menu interface.

***Note:*** *The same simulator is used for Ultra, Ultra 60, and Ultrix Carbonite. You can specify the model of switcher you want to simulate from DashBoard.*

### Keep the following in mind:

Keep the following in mind when working with the frame simulator:

- The simulator uses DHCP to obtain an IP address. If a DHCP server is not available you will not be able to connect to the simulator from DashBoard.
- The IP address assigned to the simulator is shown at the top of the simulator window and is the IP address that you will use to connect to from DashBoard.
- The simulator and DashBoard must be on the same subnet.

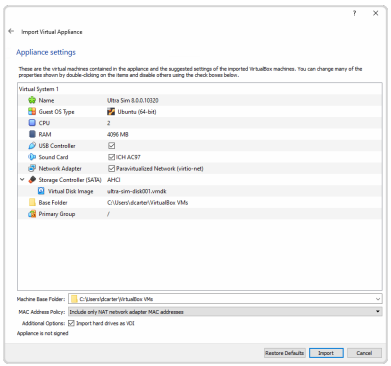
## To Install the Frame Simulator

The frame simulator is imported as an appliance into VM VirtualBox.

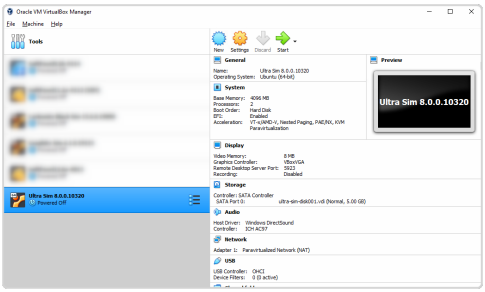
To install the frame simulator on your computer you need the following:

- Oracle® VM VirtualBox 6.1 or higher.
- The Ross `ultra-sim-##.#.#.######.ova`

1. If you have not already done so, download and install the Oracle® VM VirtualBox on your computer.
2. Launch VM VirtualBox.
3. On the Oracle® VM VirtualBox Manager, click **File** > **Import Appliance**.
4. Navigate to the Ultra Sim OVA file and click **Open**.
5. Click **Next**.




6. In the **MAC Address Policy** list, select **Generate new MAC addresses for all network adapters**.
7. Click **Import** and wait for the appliance to be imported.
8. Click on the **Ultra Sim** in the **Oracle VM VirtualBox Manager**.




9. Click **Settings**, on the right, and then click **Network** on the **Settings** dialog.

***Note:*** *You may see an* `Invalid settings detected` *for at the bottom of the dialog. Follow the directions to resolve and conflict between the VM VirtualBox and your hardware.*

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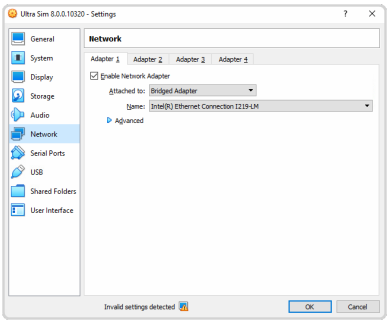
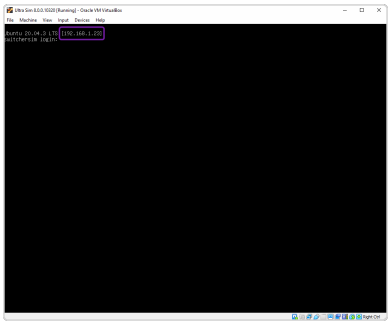


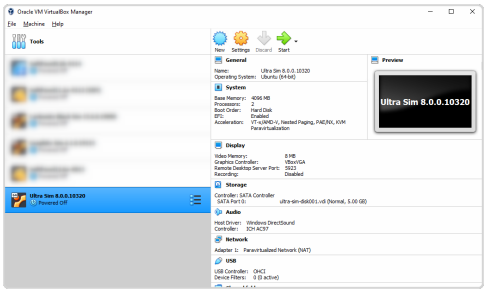


10. Click **Adapter 1** and on the **Attached to** list select **Bridged Adapter**. You can leave the **Name** setting as shown.
11. Click **OK**.

## To Run the Frame Simulator

Run the sim to obtain the IP address that you will point DashBoard to.

1. Launch VM VirtualBox.
2. Click on the **Ultra Sim** in the **Oracle VM VirtualBox Manager**.



3. Click **Start** to start the Ultra SIM.

   A separate window will open up as the simulator starts. Wait for the application to finish.

4. When the simulator is up and running the Ubuntu® version is shown at the top with the IP address of the simulated Ultra frame (in the example below it is `[192.168.1.23]`).

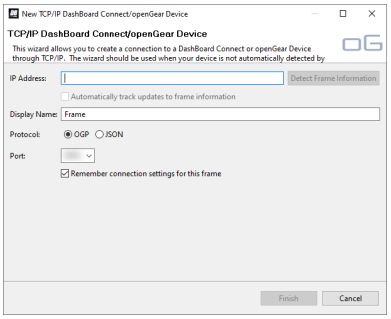
## To Connect DashBoard to the Sim

DashBoard connects to the simulator as the main panel, or as a satellite panel. Connecting as a main or satellite panel is selected by the port used to connect to the simulator.

***Note:*** *The simulator supports a maximum of 20 DashBoard connections at any one time. If there are already the maximum number of connections to a simulator you will not be able to connect to it.*

You need the IP address of the simulator to connect to it from DashBoard.

1. Click **File** > **New** > **TCP/IP DashBoard Connect or openGear Device**.



2. In the **IP Address** field, enter the IP address of the simulator shown at the top of the simulator window.
3. In the **Display Name** field, enter the name you want to use to identify the simulator in DashBoard. This should be a unique name for the simulator you are setting up.
4. Select **OGP**.
5. In the **Port** field, enter the port you want to connect to on the frame. The port you

connect to assigns the relationship the DashBoard connection has to the frame.

> ***Tip:*** *Multiple DashBoard connections can use the same port, but they will mirror each other. For example, you can connect a control panel and a separate DashBoard computer to the Main Panel port to give control from the panel and DashBoard.*

- **Main Panel** — 5253
- **Satellite 1** — 5255
- **Satellite 2** — 5256
- **Satellite 3/SoftPanel** — 5257

6. Click **Finish**.
   The frame appears in the **Tree View**.

## To Configure the Frame Simulator

The Frame simulator can be configured as either an Ultra, Ultra 60, or Ultrix Carbonite, as well as setting the type of panel you want simulate as connected to it.

1. Click **Navigation Menu** > **Configuration** > **System** > **Simulator Settings**.

2. Click a **Panel Type** button to select the type of panel that the frame will simulate being connected to.

> ***Tip:*** *You cannot simulate a panel from the frame simulator. Selecting a panel type allows the **Personality** menus to show the desired size of bus map.*

3. Click an **Engine Type** button to select the type of frame you want to simulate.