

Ultrix-OE is a DashBoard extension that allows DashBoard to act as if it is connected to a physical router. This allows editing or creation of an Ultrix control system database without the need to change things in a live situation.

This document outlines how to install the Ultrix-OE application and create off-line databases to be later exported to a physical router.

### Overview

The Ultrix-OE is an application designed to enable you to create virtual databases in an off-line environment. You can create databases based on the type of routers (Ultrix, NK Series, or a third-party device), specify the slots and the number of inputs and outputs that will be available in the database, and define the database settings without connecting to a physical router.

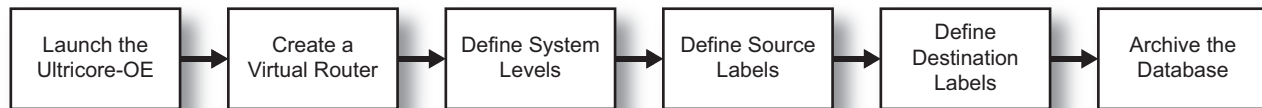


Figure 1 Creating a New Virtual Database

### Installing the Ultrix-OE

You must first install and launch the Ultrix-OE on your DashBoard client computer before its nodes display in the DashBoard Tree View.

#### To install and run the Ultrix-OE on your DashBoard client computer

1. Download the Ultrix-OE zip folder from the Ross Video website to your DashBoard client computer.
2. Extract the Ultrix-OE application from the zip folder.
3. Double-click the executable (\*.exe) file with the green icon for your operating system.

### Adding the Ultrix-OE to the Tree View in DashBoard

Once the Ultrix-OE is running, it displays in the DashBoard Tree View similar to a connected (physical) Ultrix router. The familiar nodes are present with the addition of a new one: the **Frame I/O Builder**. The Frame I/O Builder is used to create virtual routers, allowing you to specify the number of slots, video I/O, audio I/O, and enable the UltraMix feature for a slot, and specify the number of UltraScape Heads available.

★ Ultrix-OE must be running on your DashBoard client computer before you can access it via the Tree View in DashBoard.

#### To manually add the Ultrix-OE to the Tree View in DashBoard

1. Launch DashBoard on your DashBoard client computer.
2. In the **Basic Tree View** toolbar of DashBoard, click **+**.  
The **Select Equipment or Service Type to Add** dialog opens.
3. Expand the **openGear/DashBoard Connect** node.

4. Select **TCP/IP DashBoard Connect or openGear Device**.
5. Click **Next >**.  
The **TCP/IP DashBoard Connect/openGear Device** dialog opens.
6. In the **IP Address** field, type 127.0.0.1.
7. In the **Port** field, select **5256**.
8. Click **Detect Frame Information** to automatically retrieve the remaining connection details.
9. Click **Finish**.

The Ultrixcore-OE displays as a new node in the **Tree View**.

### To access the Ultrixcore-OE interfaces in DashBoard

1. Locate the **Ultrixcore-OE** node in the Tree View of the DashBoard window.
2. Expand the **Ultrixcore-OE** node.
3. Expand the **Offline Editor** sub-node.

## Creating a Virtual Router

Creation of an Ultrixcore-OE database requires some devices to build the database against. The Frame I/O Builder interface enables you to create virtual routing units based on the router type.

### To create a virtual router using the Ultrixcore-OE

1. Display the Ultrixcore-OE in DashBoard as outlined in “**To access the Ultrixcore-OE interfaces in DashBoard**”.
2. Expand the **Database** sub-node.
3. Double-click the **Frame I/O Builder** sub-node.

The Frame I/O Builder interface displays in the DashBoard window.

4. Click **Add**.

The **Add Frame** dialog opens.

5. Use the **Name** field to specify a unique identifier for the virtual router.  
This name will be applied to the physical router when you import the database to it.
6. Use the **Type** menu to specify the router chassis the database will be for.

★ The **Type** menu is set to **Ultrix** by default.

7. Use the **Model** menu to define the size of router you want to create a database for.
8. Click **Apply**.

- The **Add Frame** dialog closes.
- The **Frame I/O Builder** interface displays the virtual router as a new row.
- The **Video I/Os** and **Audio I/Os** cells to specify the number of inputs and outputs based on the Type and Model settings.

### To edit the settings of a virtual router

1. In the **Frame I/O Builder** interface, select the row for the virtual router you wish to edit.
2. Click **Edit**.

The **Frame Settings** dialog opens.

3. Use the first column to specify the slot(s) that will be enabled on the virtual router.  
In the previous example Slots 1, 3, and 4 are enabled.
4. Use the **MV Head** columns to assign the UltraScape Head(s) to the router output(s).
5. Use the **UltraMix** column to specify which slots that will include an audio matrix.
6. Click **OK**.  
The dialog closes and the new settings are applied.
7. Repeat steps 1 to 6 for each virtual router you wish to edit.
8. Click **Apply** at the bottom of the Frame I/O Builder interface to save your virtual router settings to disk.

## Creating an Off-line Database

Once at least one virtual router is defined, a database may be created based on its configuration and I/O. This database then can be applied to a physical device.

- ★ All virtual routers are available when creating a virtual database. Ensure that you are selecting the correct slot(s) when configuring your levels, sources, and destinations.

### To create a virtual database

1. Create at least one virtual router as outlined in the previous section.
2. Select **Ultrixcore-OE > Offline Editor > Database**.
3. Double-click the **Database Manager** node.
4. Build your database using the **Offline Editor** nodes as outlined in the *Ultrix and Ultrixcore Database Guide*.
- ★ When building virtual databases, you would select **Ultrixcore-OE > Offline Editor > Database > Database Manager** to create a new database. Select **Ultrixcore-OE > Offline Editor > Database > Configuration** to access the sub-nodes instead of Ultrix > Database as outlined in the *Ultrix and Ultrixcore Database Guide* procedures.
5. Proceed to archive the database as outlined in the next section.

## Exporting an Off-line Database

You create an archive of a database (as a \*.udb file) using the Export option in the **Database Manager**. This enables you to create a duplicate or template of a database and edit its settings without impacting the original file, or if you wish to import the database to a physical router.

### To archive a database

1. Ensure you are still in **Ultrixcore-OE > Offline Editor** interface.
2. From the Database Manager table, select the row for the database you wish to export.
3. Click **Export** from the top toolbar.  
The Export dialog opens.
4. Use the **Save as** field to specify the filename for the exported file.

5. Click **Export database** to specify the location to save the new \*.udb file to.
6. Click **Close**.  
The Export dialog closes.

## Importing an Off-line Database to a Physical Router

You can import any archive off-line database (\*.udb file) to a physical router using the following method. Ensure that the physical router that you are importing the off-line database to is the same model, type, and software version as the virtual router used to build the database.

★ Refer to the *Ultrix and Ultrixcore Database Guide* for details on importing databases created prior to the v6.1 software.

### To import a database to the Database Manager

1. In DashBoard, navigate to the Database Manager of the physical router you want to import the database to.
2. From the Database Manager toolbar, click **Import**.  
The Import dialog opens.
3. Click **Choose File**.
4. Select the \*.udb file you wish to import.
5. Click **Open**.  
The **Select file** field in the Import dialog reports the selected filename.
6. Use the **Database name** field to assign an identifier to the file. This name will display as a new row in the Database Manager.
7. Click **Import database**.
8. Click **Close**.  
The Import dialog closes.
9. Verify that the imported database displays in the Database Manager of the physical router.