TABLE OF CONTENTS

1. OVERVIEW 1

2. REQUIREMENTS 1

3. CONFIGURING EQX/MAGNUM SERVER 1

4. CONFIGURING NAME SERVICE IN MVP SERVER 1

5. USING NAMESERVICE IN MAESTRO 6

6. NAMESERVICE UMDS WITH PHYSICAL INPUTS 6

7. CONFIGURING NAMESERVICE IN EQX SERVER / MAGNUM 7

Figures

Figure 1: System Information 2
Figure 2: System Configuration 3
Figure 3: Hardware Setup 4
Figure 4: Control Settings 5
Figure 5: Nameservice in Maestro 6
Figure 6: Enable Physical Inputs 7
Figure 7: Login Screen 8
Figure 8: Quartz Tab 9
Figure 9: Quartz Tab – “Add” Button 9
Figure 10: “Add Quartz Interface” Dialog Box 10
Figure 11: Newly Added Quartz Interface Listed in Quartz Tab 11
Figure 12: Sources Tab 12
Figure 13: Making a Source/Destination Available 13
Figure 14: “Order” Column 14
Figure 15: Re-arranging the Quartz Numeric Assignment 15
Figure 16: Creating “Blank” Sources & Destinations 16

REVISION HISTORY

REVISION	DESCRIPTION	DATE
1.0	Original Release	Dec 2008
1.1	Updates throughout	June 2012

1. OVERVIEW

Name Service allows names to be transferred from a Router, EQX or Magnum Server to UMD Windows and Ingest Source and Destination lists in Maestro. Names are hosted on the router or control system, and the MVP Server will automatically update as names are changed.

2. REQUIREMENTS

- PC Based MVP Server (Not On-Board Server) running Kingston release or higher (Installer 2.12.x or above).
- EQX Server 2.2.0 or above, or Magnum Server is required for these instructions. Pre EQX Server 2.2.0 system does not support re-aliased ports for the Quartz Interface so customers may want to default to the previous.

3. CONFIGURING EQX/MAGNUM SERVER

The server is required to have full control of the router's outputs, including the X-Link. If the router is a Xenon, the XE-FC is required, not the XE-FU.

In the server, create a "Quartz Interface", and add the router to it. Ensure that the order number matches the physical output of the router, inserting blanks, or reordering the outputs if required. Magnum 1.1.0 and above will remap the X-Link outputs of the router to be in a sequential order.

4. CONFIGURING NAME SERVICE IN MVP SERVER

In most cases, to use Name Service, the router must be part of the MVP System.

System Setup requires "Use Name Service" to be selected. Optionally for debugging, under "Advanced Options", enter "-D Quartz" for additional routing information to be displayed in the system log. Please see Figure 1.

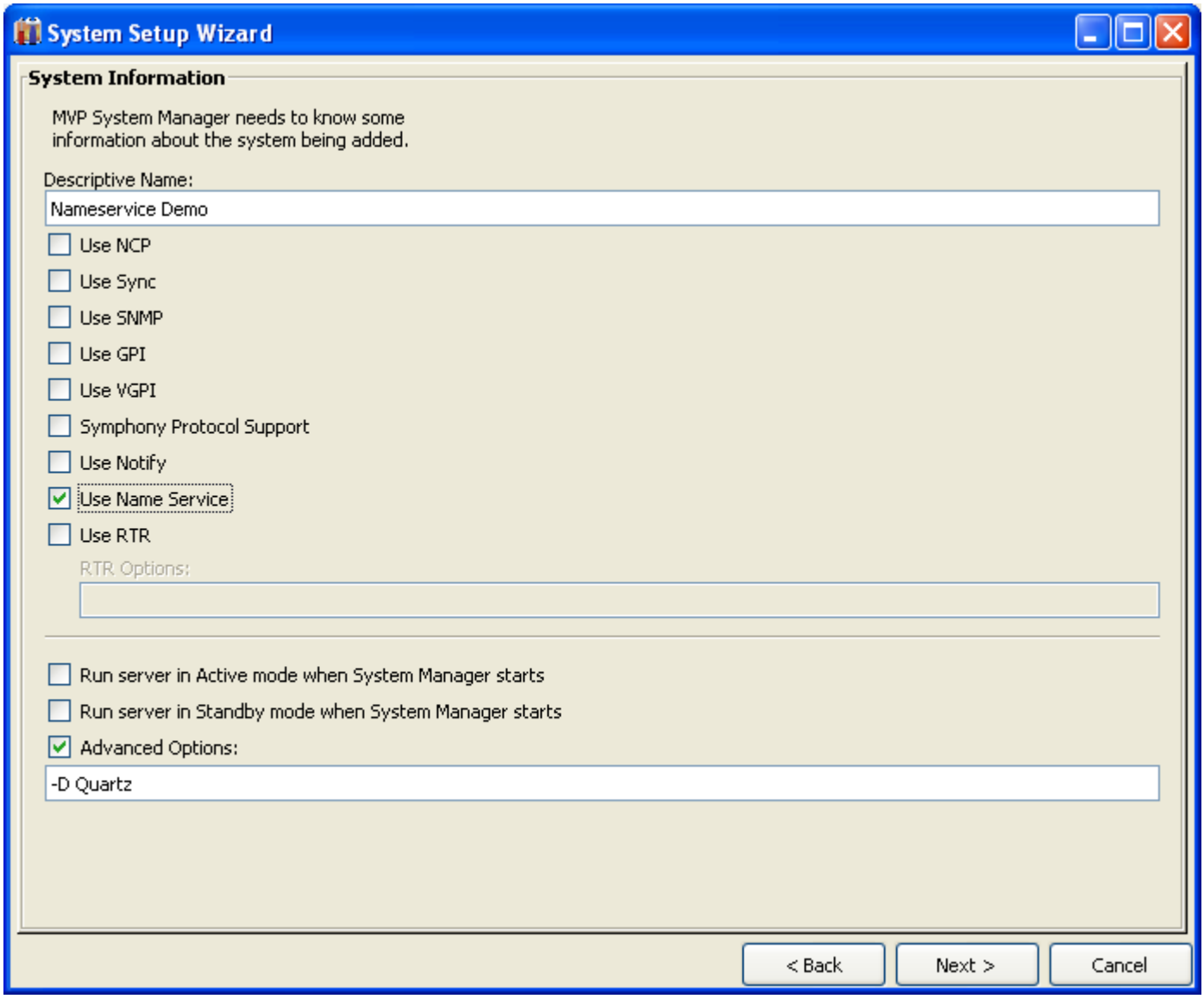

Figure 1: System Information

The "System Configuration" window, as illustrated in Figure 2, allows you to enable *Destination Echo* and *Name Sync*.

- *Destination Echo* will allow Maestro to place a router destination on the Monitor wall, so that whatever source is routed to that destination will be displayed on the wall.

- *Name Sync* will use Name Service to push the names from the System Controller to Maestro.

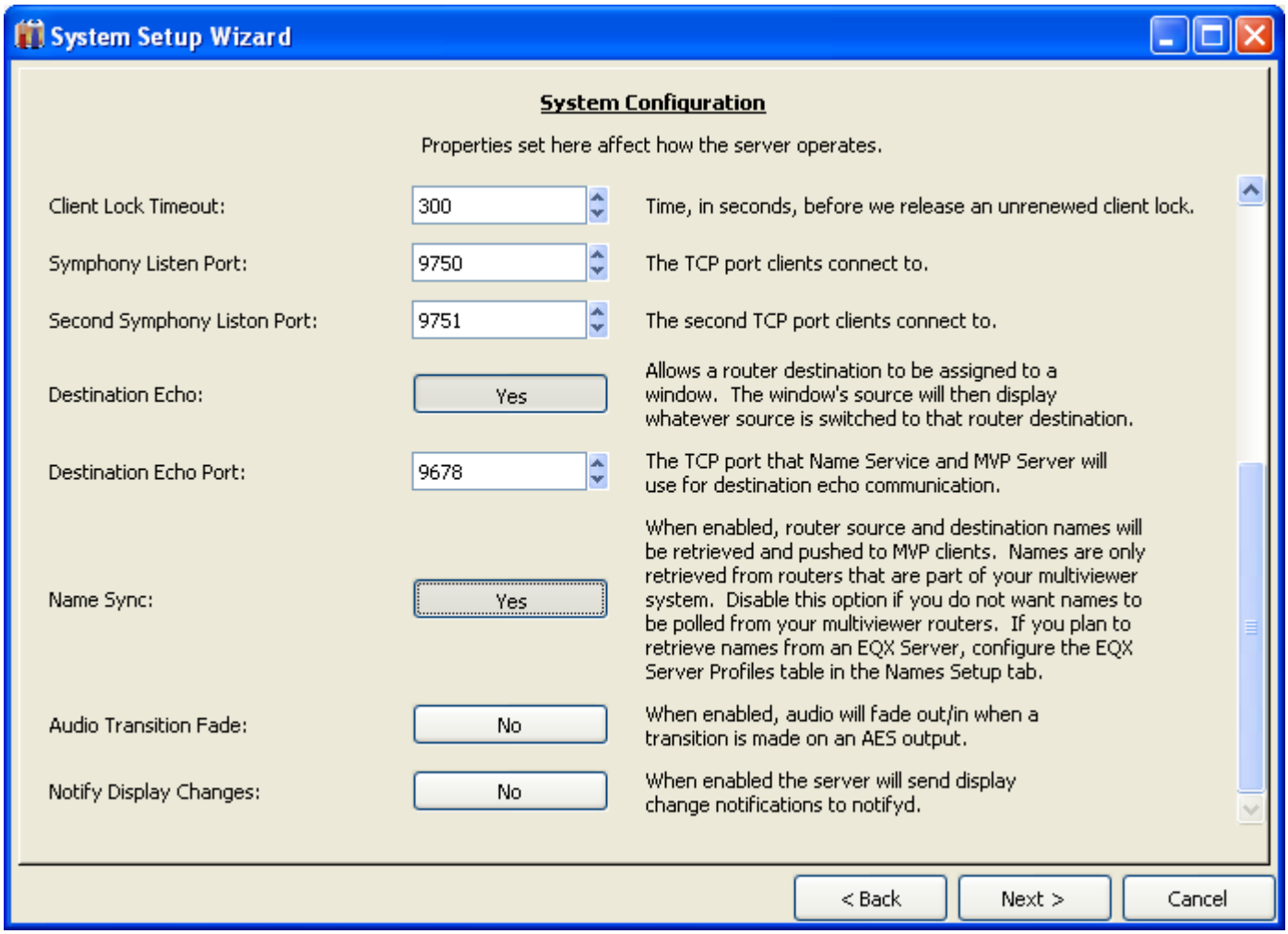

Figure 2: System Configuration

Figure 3 shows a simple system with a single router (EQX) and a single display card (VIPA). The IP Address entered for the router needs to be the Cluster IP address of the EQX/Magnum Server.

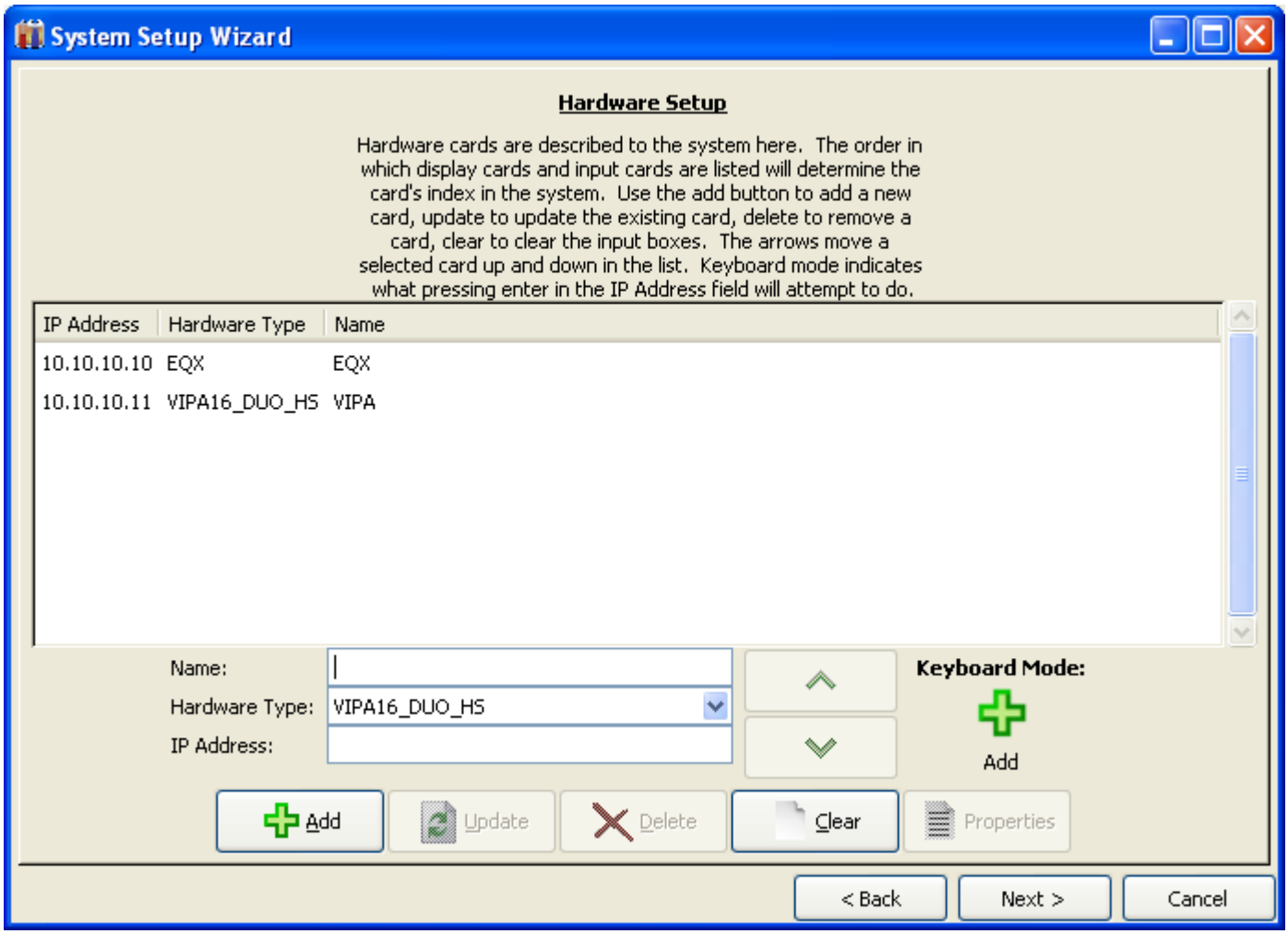

Figure 3: Hardware Setup

- Click on the router, and then click on *Properties*. On the "Connections Settings" tab, ensure the Quartz Interface's port number, configured in the previous step, is entered for the Primary Port.

- On the "Control Settings" tab, ensure that *Input Name Source for Name Service* is set to "Yes". See Figure 4.

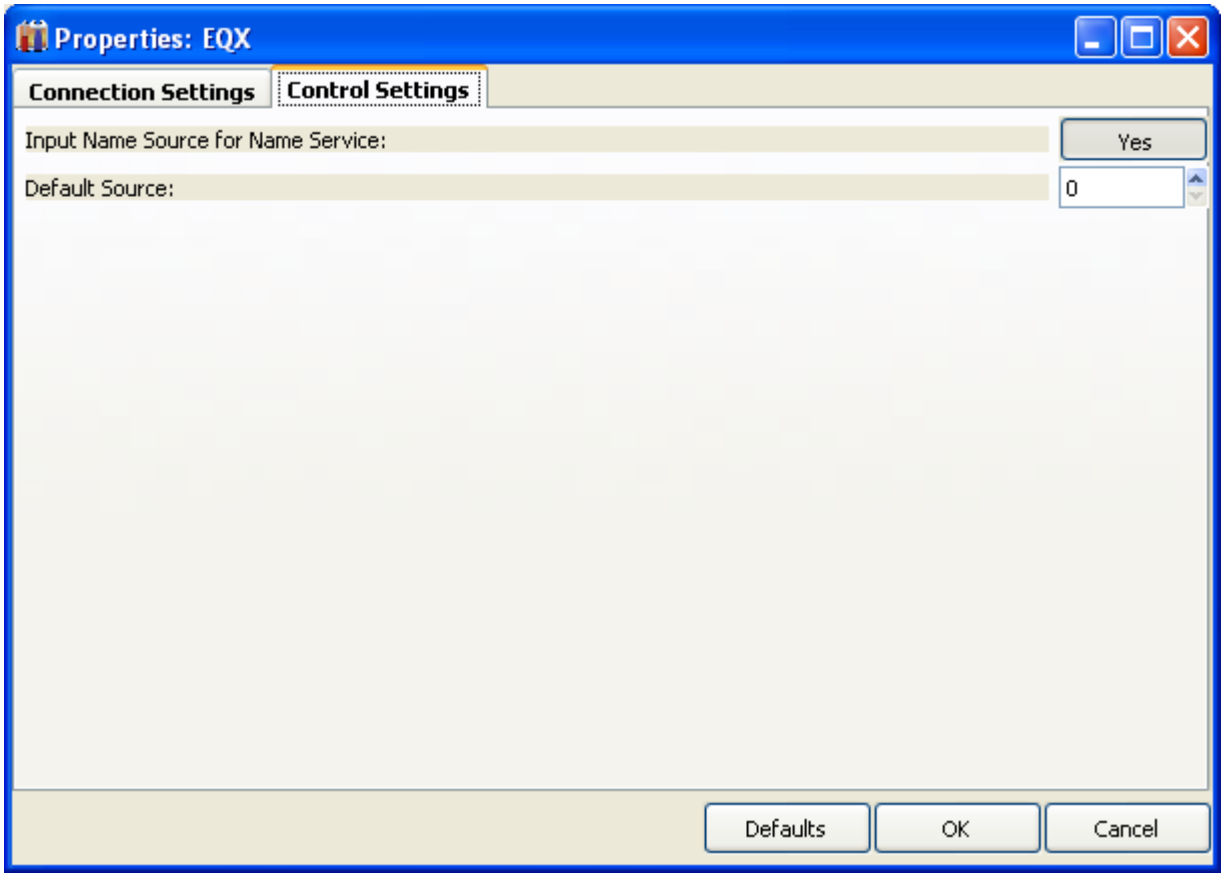

Figure 4: Control Settings

Complete the configuration of the MVP Server as usual, creating tie-lines between the Routers, and the Input modules, and between the input and output modules if applicable.

5. USING NAMESERVICE IN MAESTRO

To use Nameservice for UMDs in Maestro, create the Layout on the *Interior Design View* and drag and drop a UMD Object on to the window. Click on the UMD, and set **Properties → Mode Settings → Mode → Function to Name Service**.

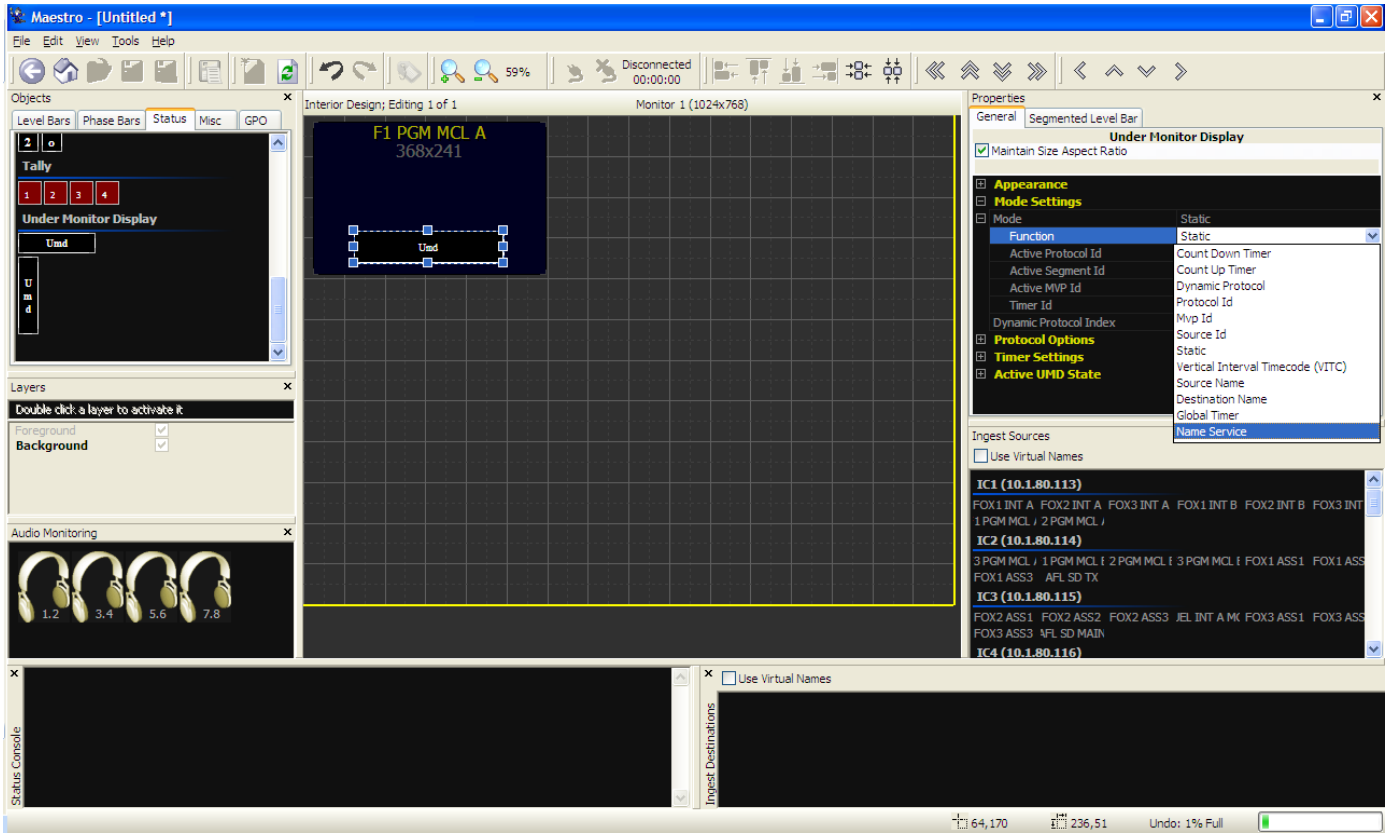

Figure 5: Nameservice in Maestro

6. NAMESERVICE UMDS WITH PHYSICAL INPUTS

If the desired operation of the Multiviewer system is to have a router control panel directly route to the Multiviewer inputs, Nameservice can still be used for UMDs.

Instead of dragging and dropping a router source into a window in Maestro, drag a Physical input to the same window.

Physical inputs are the actual MVP/VIP inputs and will not cause a route on the upstream router. If the Physical inputs are not visible under *Ingest Sources*, ensure they are enabled by navigating to the *View* drop down menu, **View → Arrange Sources By → Physical Inputs** (Ensure this option is check marked).

Please note that each MVP system or VIPX module must use either Physical Inputs OR Router Inputs. To avoid unpredictable video routing to Multiviewer windows, the methods may not be mixed.

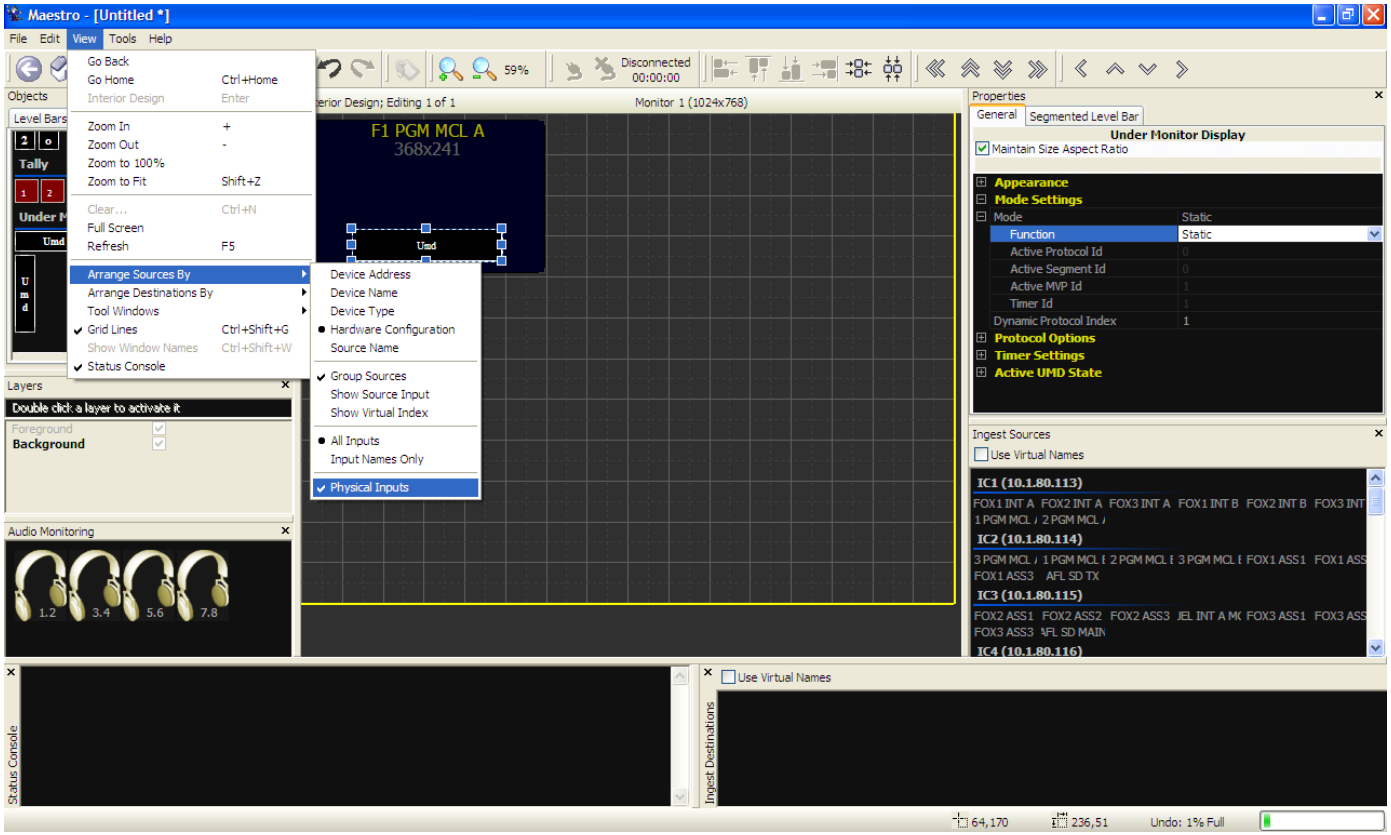

Figure 6: Enable Physical Inputs

7. CONFIGURING NAMESERVICE IN EQX SERVER / MAGNUM

1. Configuration of the MAGNUM Quartz Interface begins with launching a Web Browser such as FireFox. Once the web browser has launched, enter the heartbeat address for the MAGNUM Cluster into the URL (For more information on this, please refer to the MAGNUM Server Manual).

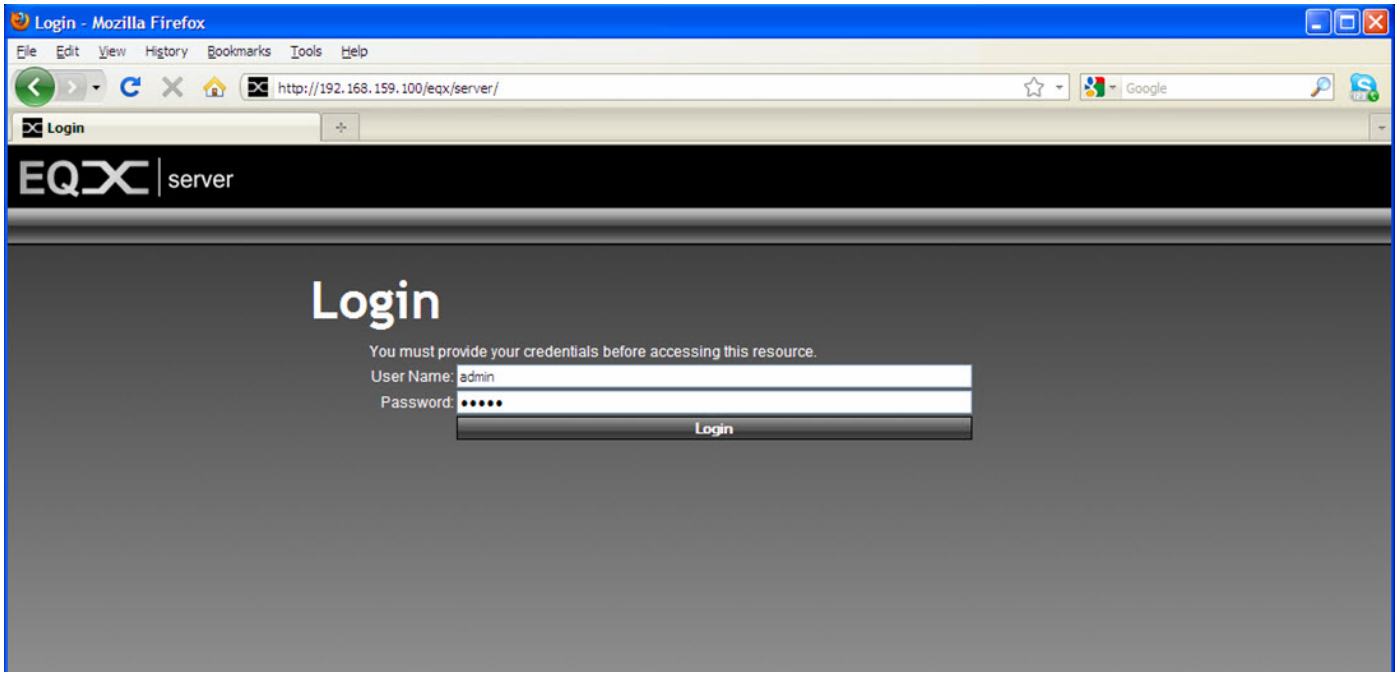

Figure 7: Login Screen

2. After successful login, navigate to the **Interfaces** page and select the **Quartz** tab. (This configuration assumes a configured and functional control system of at least one router that the MVP Server will be connecting to for control/names.

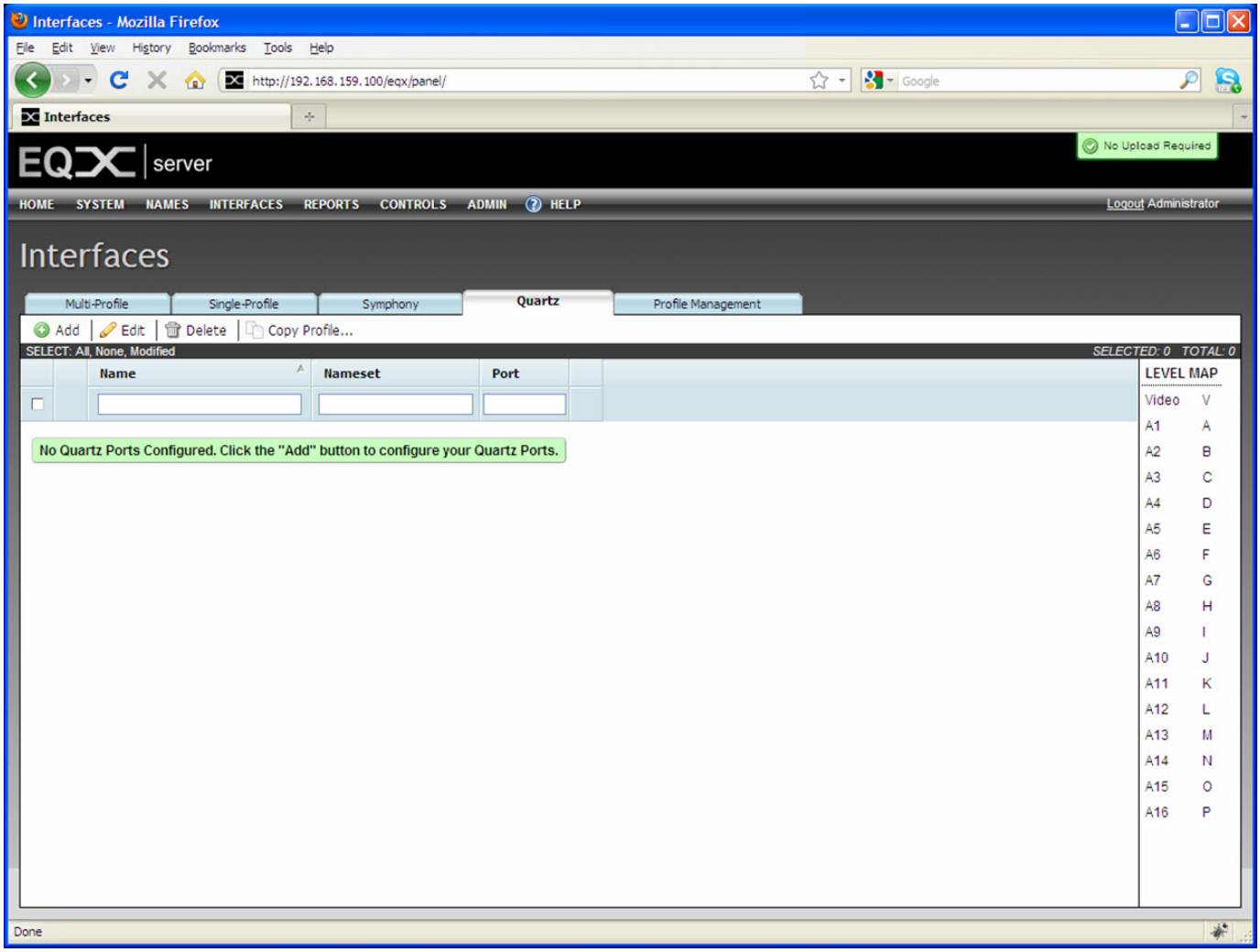

Figure 8: Quartz Tab

3. To add a Quartz Interface, click the “Add” button.

Figure 9: Quartz Tab – “Add” Button

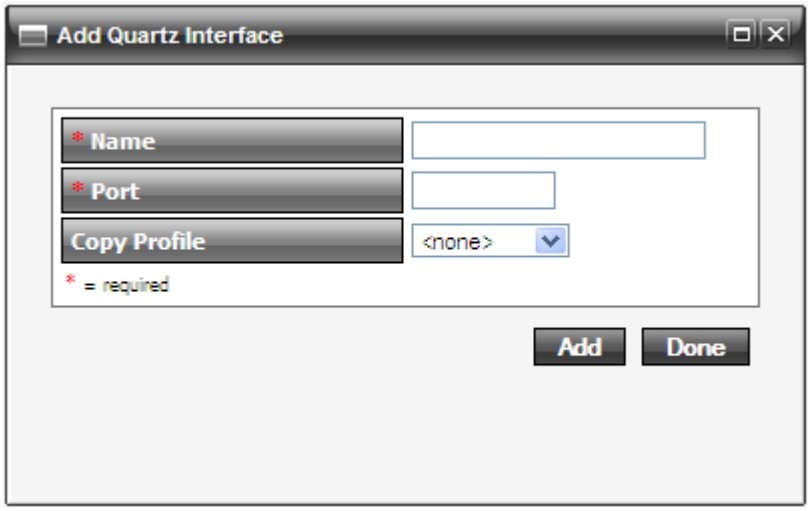

Figure 10: "Add Quartz Interface" Dialog Box

4. When the dialog box appears prompting you to add a Quartz Interface, enter the appropriate information into the required fields:

   - **Name:** MULTIVIEWER
   - **Port:** 4050

5. Once the required fields have been filled in, click the "Add" button to finish creating the Quartz Interface.

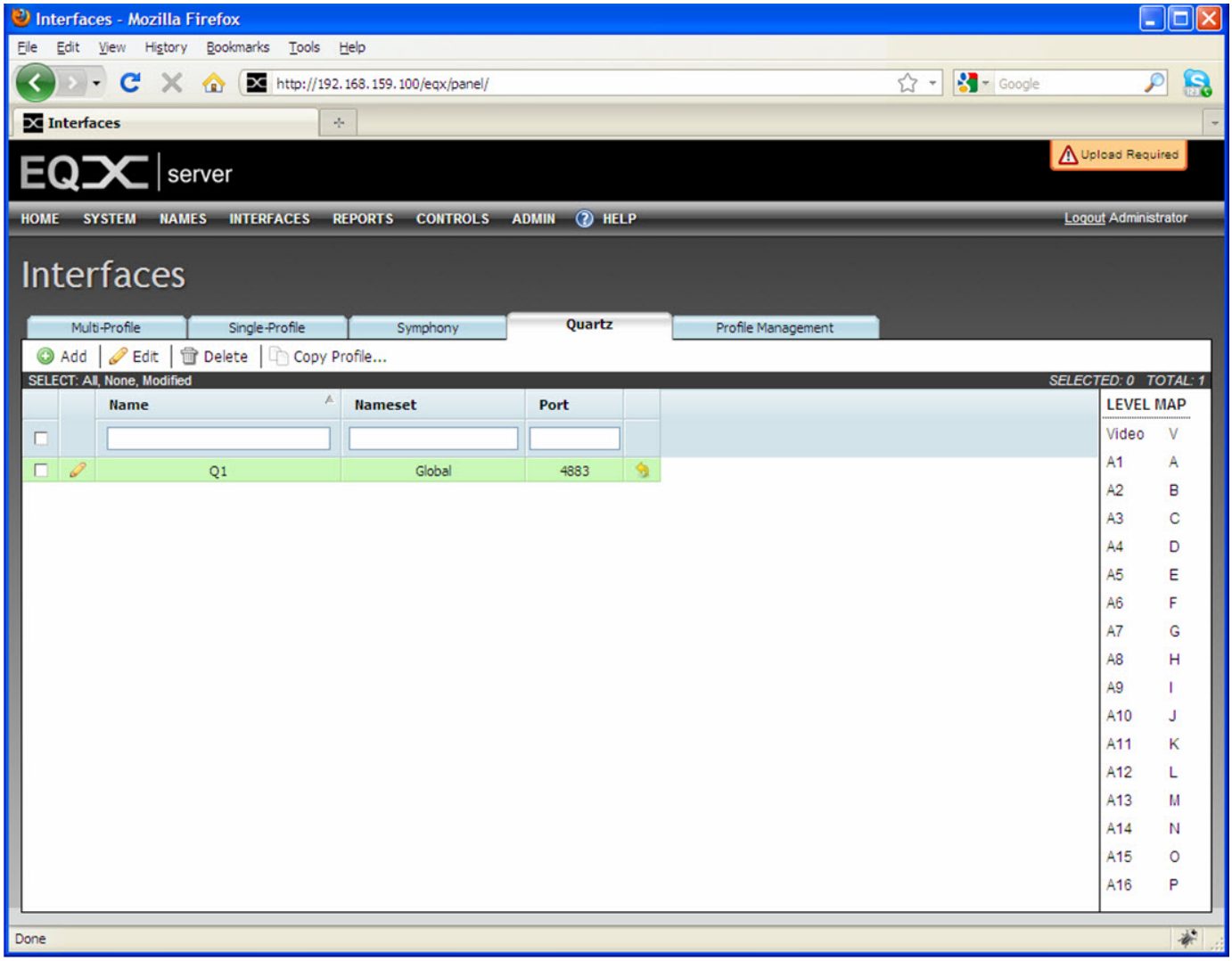

Figure 11: Newly Added Quartz Interface Listed in Quartz Tab

6. Now that the Quartz Interface has been created and appears in the Quartz Interface list, click on the “pencil” icon to finish the configuration of the Quartz Interface.

7. Once the “pencil” icon has been clicked, the Quartz Interface will present the user with tabs containing source and destinations for the entire system as shown in Figure 12.

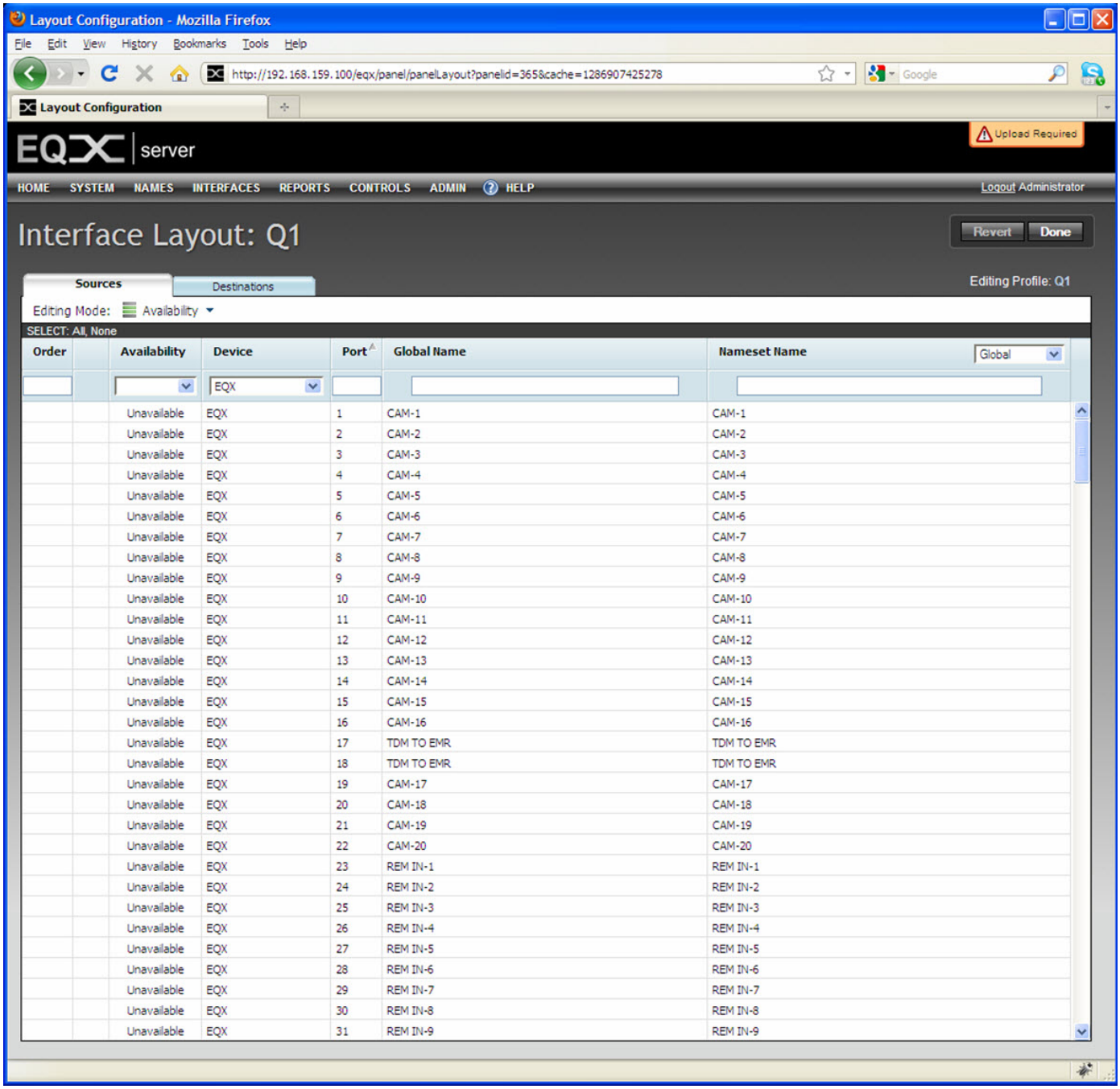

Figure 12: Sources Tab

8. The default state of all sources and destinations for this Quartz Interface is unavailable. To make a source or destination available to the Quartz Interface, click on the source or destination.

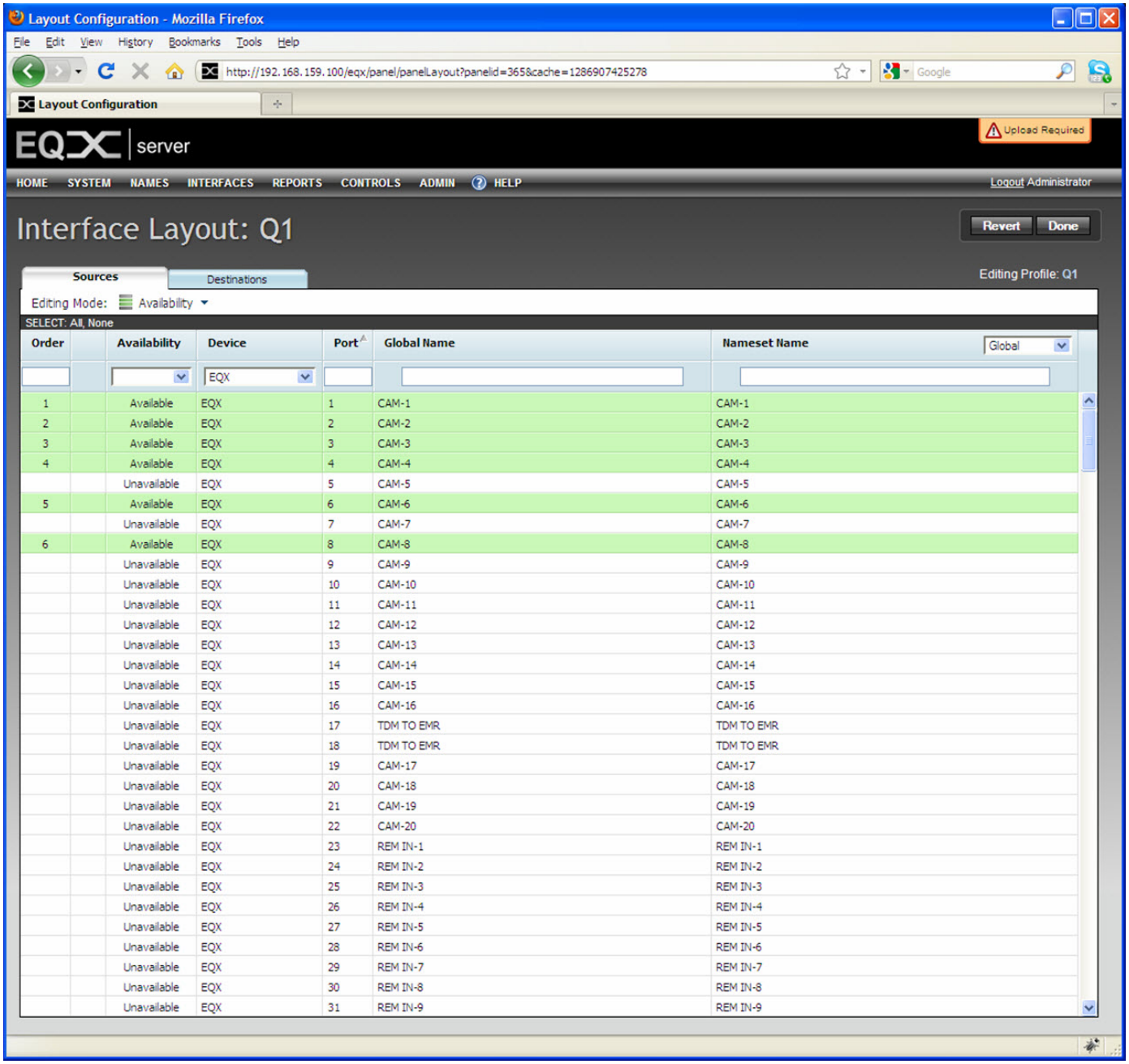

Figure 13: Making a Source/Destination Available

9. The source or destination will appear green (available) when clicked. To make a source or destination unavailable, hold down “ctrl” and click on the desired source or destination. Ensure that interface contains all sources and destinations for the device in the physical port order.

10. Now that sources and destinations have been assigned to the Quartz Interface they are ready to be used once they are uploaded and committed to the MAGNUM Server.

    Note: Quartz is a numeric based protocol. This means that all sources and destination must have a numeric assignment, not alphanumeric assignments. The numeric assignment for the source and destinations within the Quartz port is derived from the “Order” column.

This means that the Quartz numeric assignment for EQX PORT 1 in Figure 14 is “1”, and the numeric assignment for EQX PORT 8 is “6”.

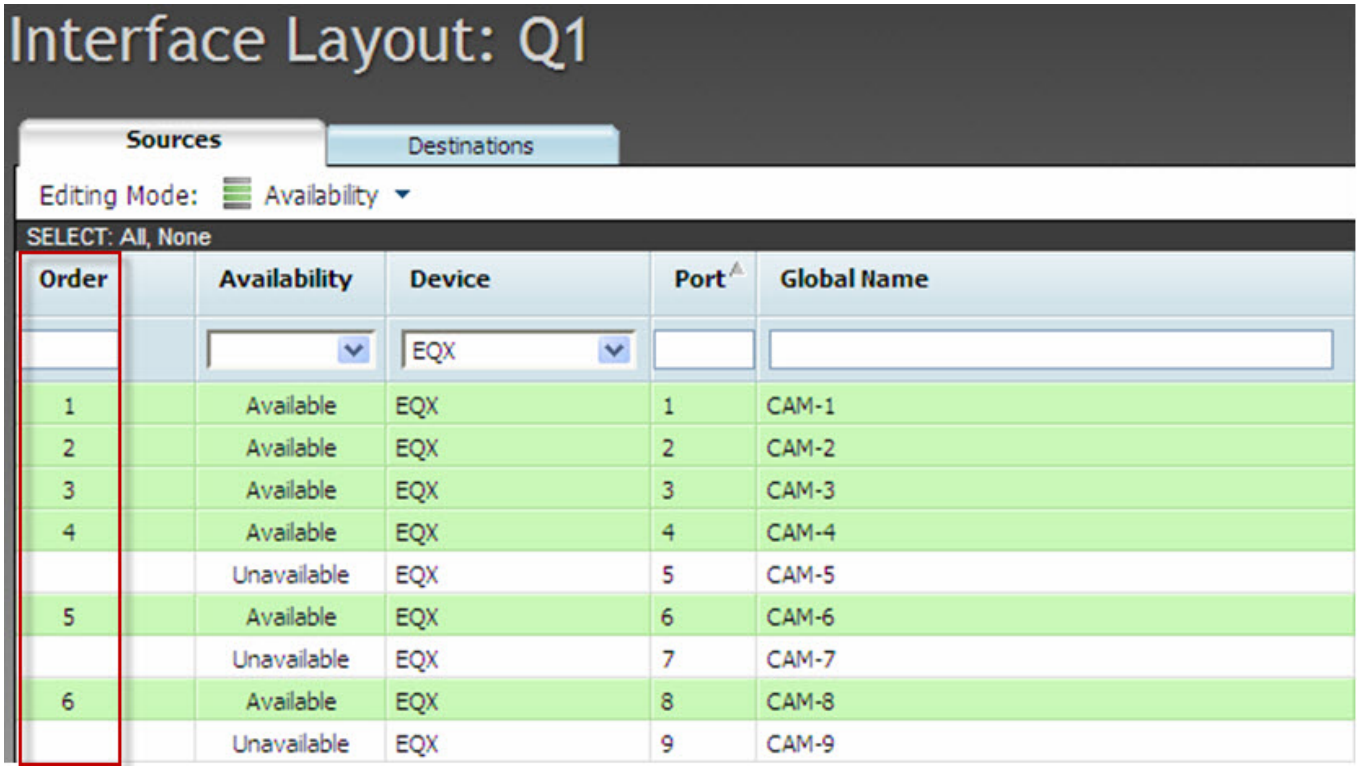

Figure 14: “Order” Column

11. The Quartz numeric assignment can be changed by clicking on “Editing Mode” and selecting “Re-order”. This allows the users to re-define the Quartz numeric assignments for a router port within the Quartz Interface.

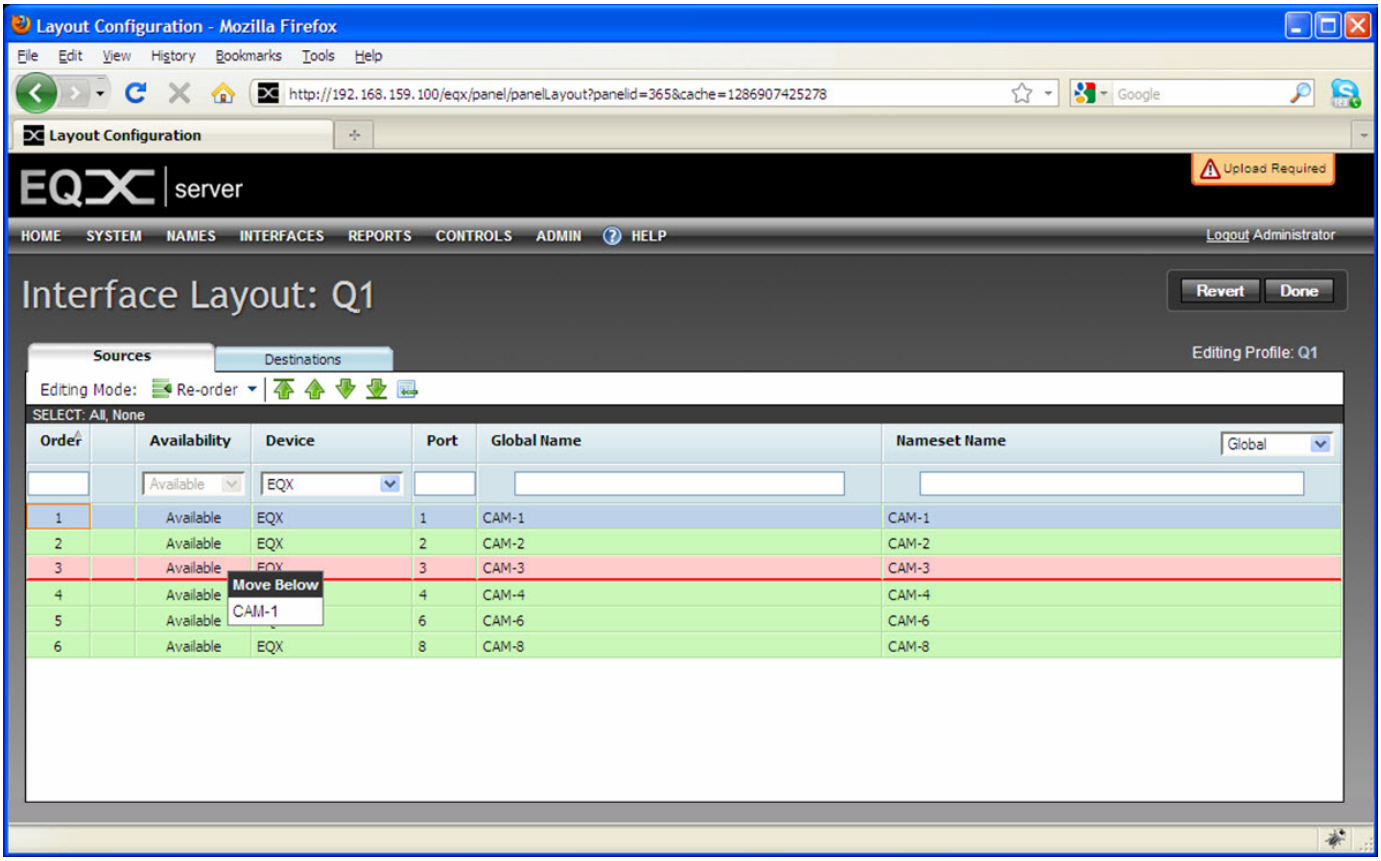

Figure 15: Re-arranging the Quartz Numeric Assignment

12. If specific Quartz assignments are required, the use of “Blanks” can be applied which insert place holders thereby forcing specific Quartz numeric assignments as shown in Figure 16.

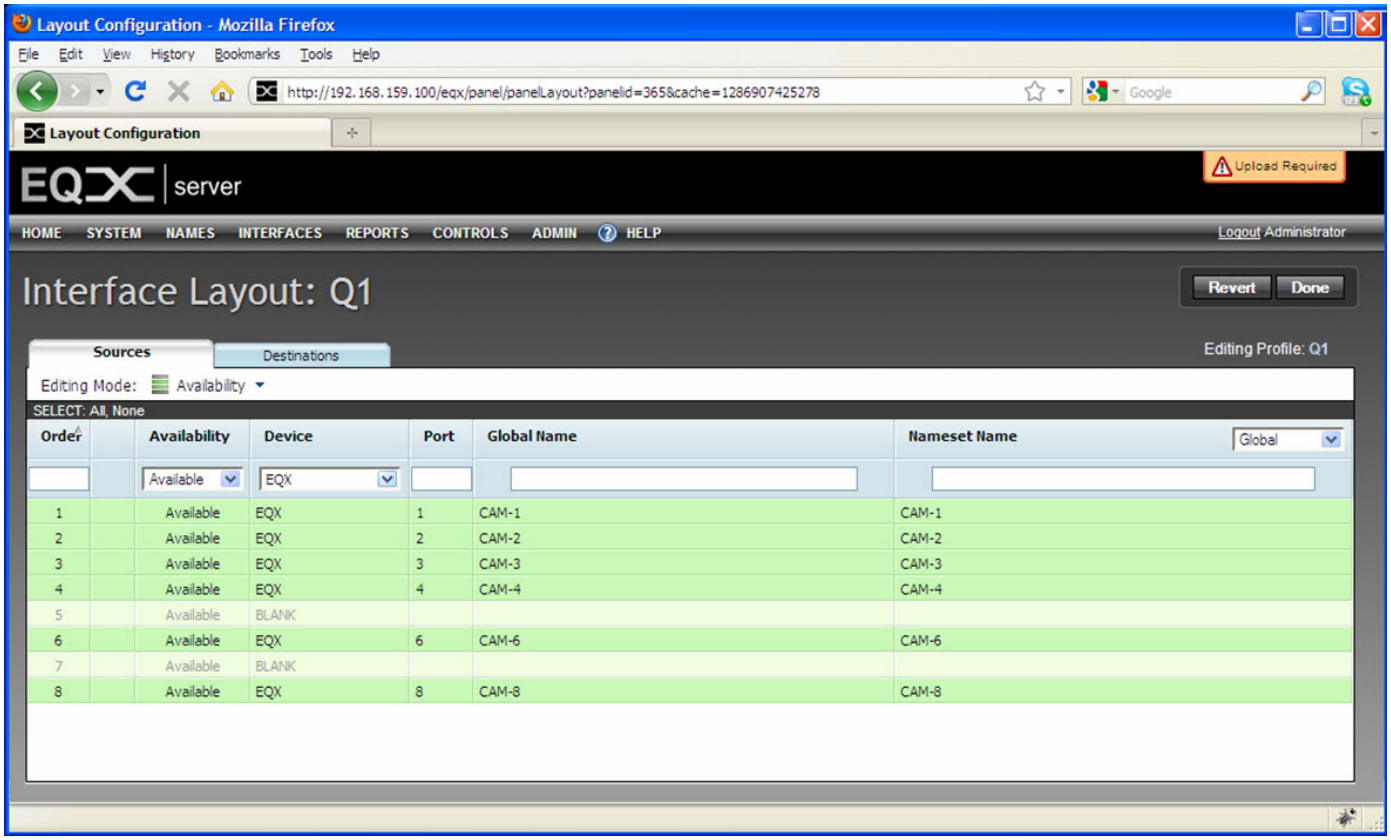

Figure 16: Creating "Blank" Sources & Destinations