

LynxDanteSR Application

Version 1.0.0

Device name	Primary address	Clock source	Primary v1 Multicast	Preferred leader	Enable sync to external	Sample rate	Device clock leader
RedNetPCleR	192.168.10.172	Dante	Leader	<input type="checkbox"/>	<input type="checkbox"/>	44100	None
Lynx-AuroraN-6019142207	192.168.10.216	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	44100	RedNetPCleR
Lynx-AuroraN-6019142211	192.168.10.175	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	44100	RedNetPCleR

User Manual

Updated: March 20, 2024

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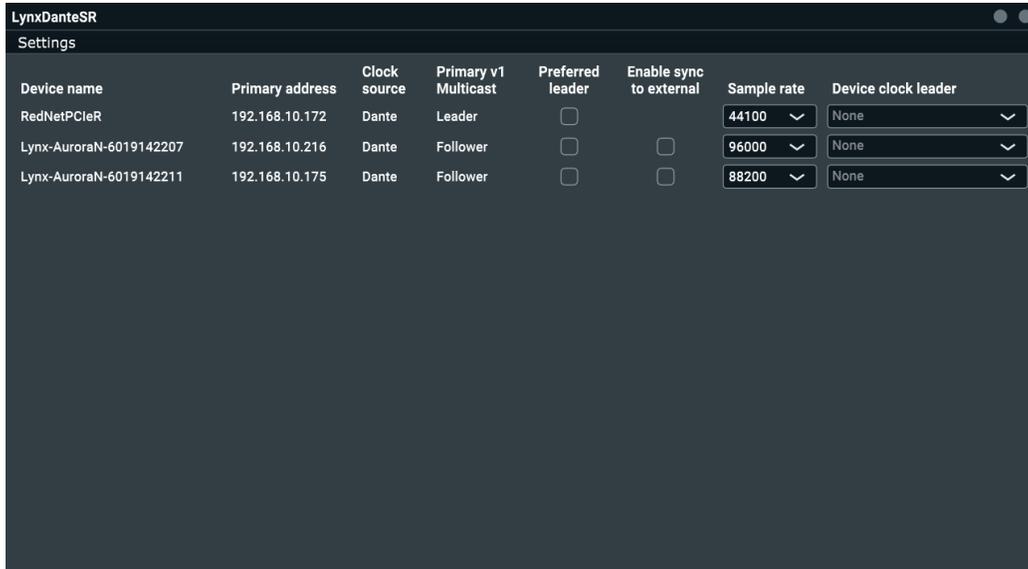
The LynxDanteSR application was designed to allow the user of an Aurora(n)-Dante, Hilo-Dante or Aurora-Dante to follow sample rate changes of another Dante device, called the **Device clock leader**. Please note: Although it is possible to manually change the sample rate for any Dante device using the LynxDanteSR application, the application will only send automatic sample rate change commands to Lynx Dante devices.

The LynxDanteSR application was designed to look similar to the Dante Controller Clock Status page with an additional option to set the **Device clock leader**.

The LynxDanteSR application will need to be kept running (minimized is fine) to automatically send the sample rate change commands. If the application is closed while minimized, it will re-open minimized. This way the application can be set to open upon startup and not take up space on the desktop. When closed, no automatic sample rate changes will occur. As soon as the application is launched, if Device clock leaders were previously selected, the application will immediately synchronize the sample rates.

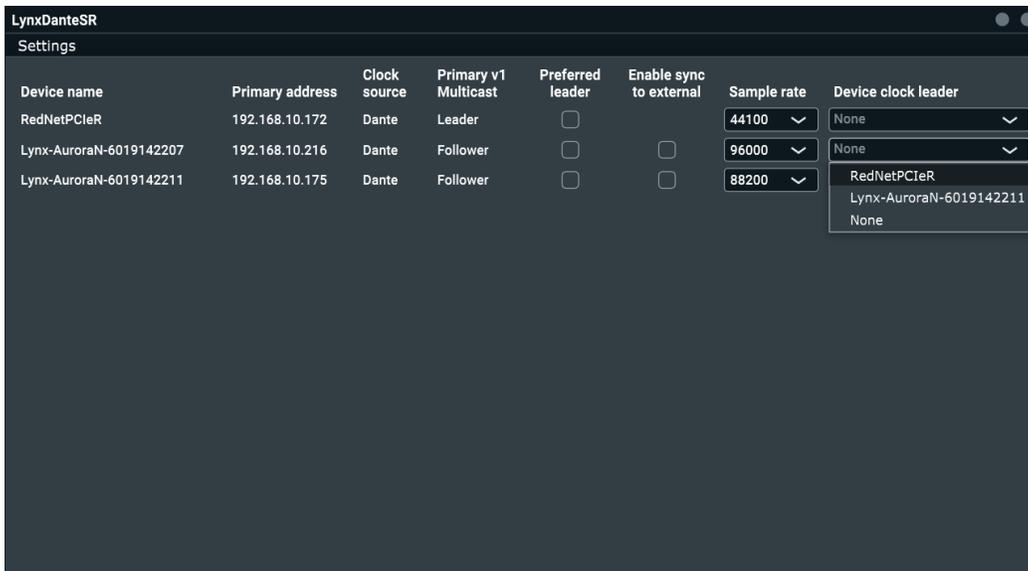
Single Device clock leader

Let's take a look a setup with a single Red Net PCIeR card and two Aurora(n)s in a Dante network. All three devices are showing a different sample rate which prevents the devices from subscribing to each other's channels.

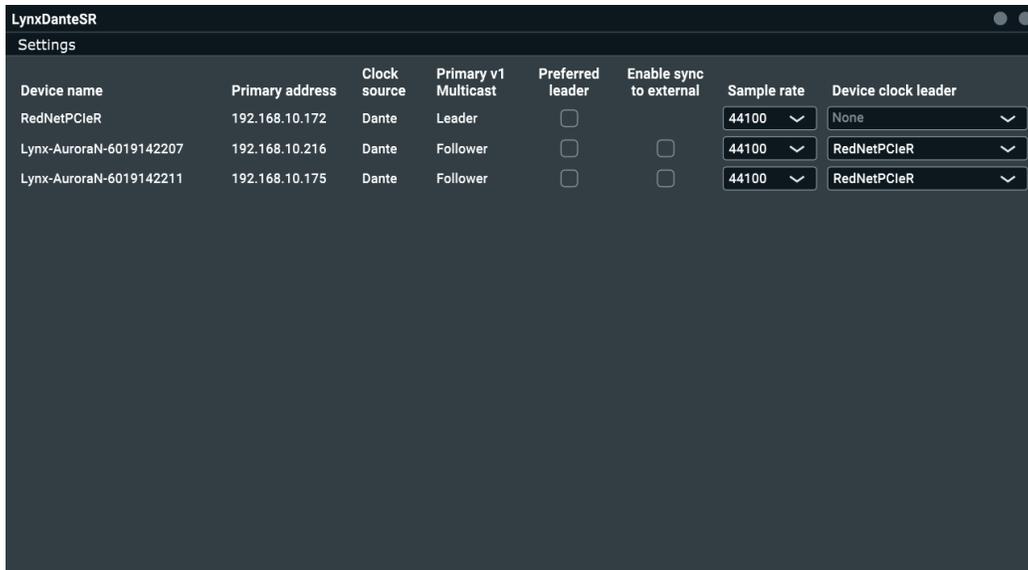


Device name	Primary address	Clock source	Primary v1 Multicast	Preferred leader	Enable sync to external	Sample rate	Device clock leader
RedNetPCIeR	192.168.10.172	Dante	Leader	<input type="checkbox"/>	<input type="checkbox"/>	44100	None
Lynx-AuroraN-6019142207	192.168.10.216	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	96000	None
Lynx-AuroraN-6019142211	192.168.10.175	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	88200	None

By selecting the RedNetPCIeR as the **Device clock leader** for the two Aurora(n)s, they will immediately change sample rate to the same rate as the RedNetPCIeR.

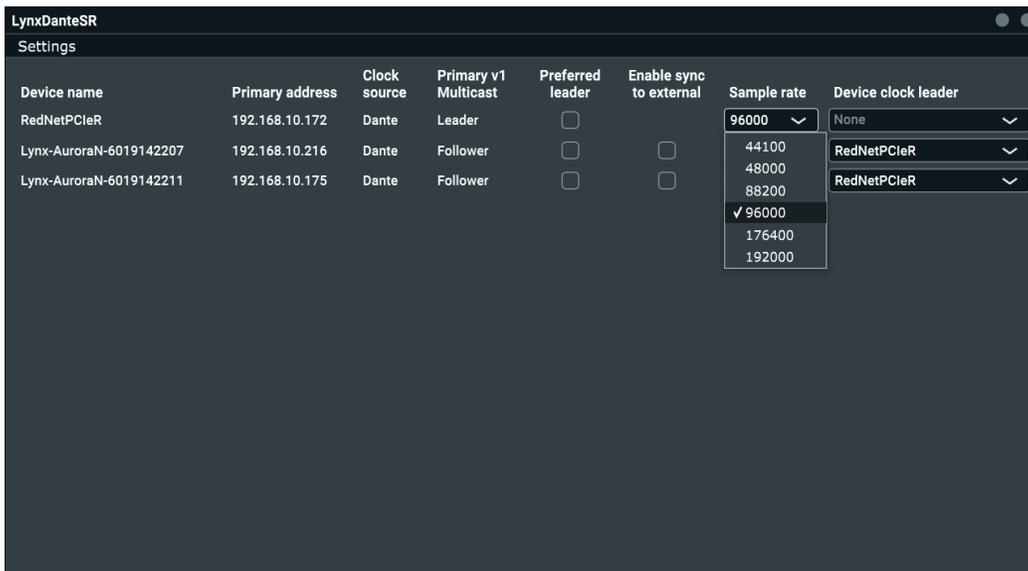


Device name	Primary address	Clock source	Primary v1 Multicast	Preferred leader	Enable sync to external	Sample rate	Device clock leader
RedNetPCIeR	192.168.10.172	Dante	Leader	<input type="checkbox"/>	<input type="checkbox"/>	44100	None
Lynx-AuroraN-6019142207	192.168.10.216	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	96000	None
Lynx-AuroraN-6019142211	192.168.10.175	Dante	Follower	<input type="checkbox"/>	<input type="checkbox"/>	88200	RedNetPCIeR Lynx-AuroraN-6019142211 None

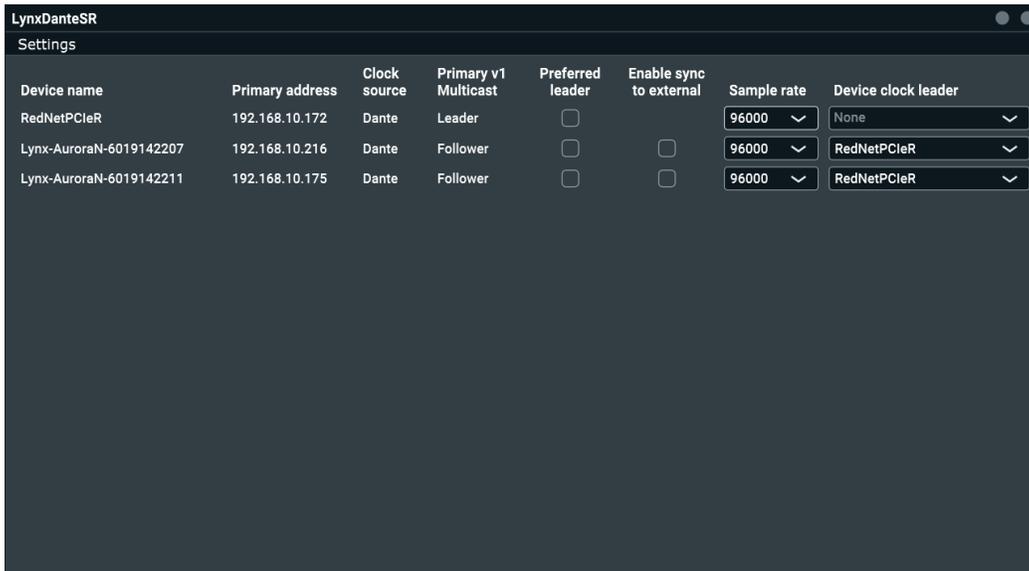


When the Red Net PCIeR device sends a sample rate change notification, the LynxDanteSR application will send a sample rate change command to both of the Aurora(n)s.

Simply select the desired sample rate on the Sample rate drop-down box for the Device clock leader device (in this case, the RedNetPCIeR) and both Aurora(n)s will follow that sample rate.

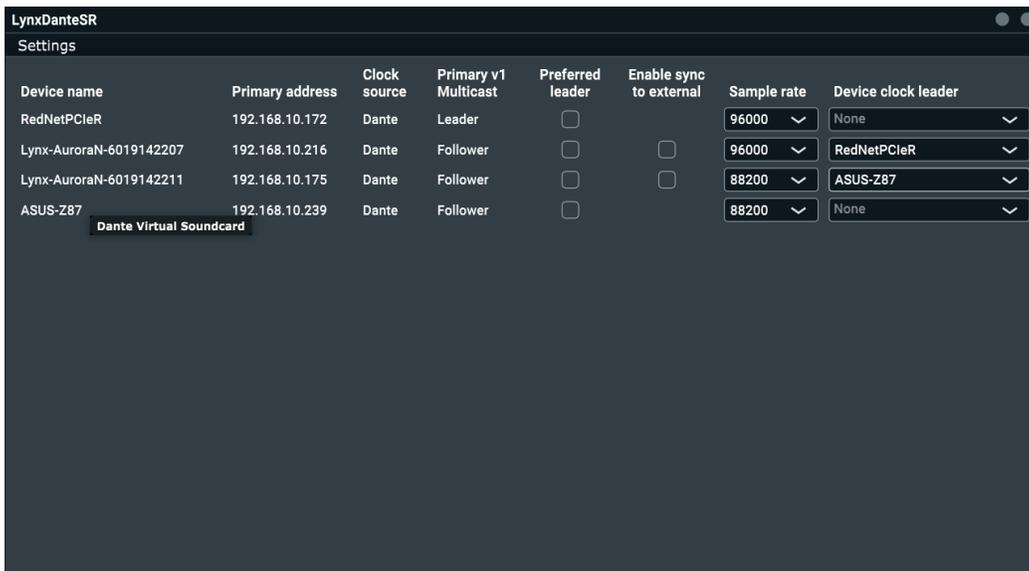


After a few seconds, both Aurora(n)'s will show the same sample rate and any subscribed channels will be automatically reconnected.



Multiple Device clock leader

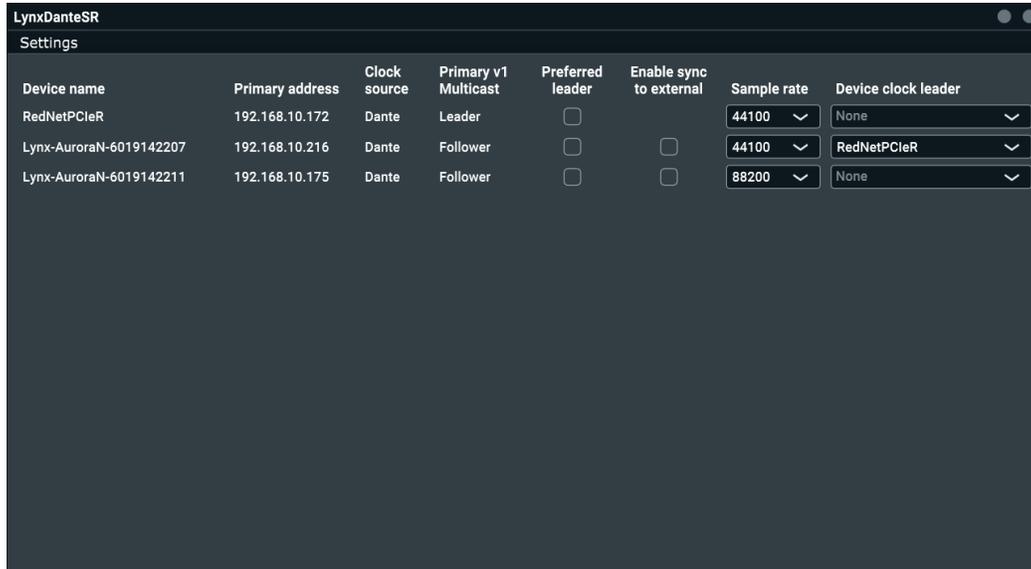
Now we will look at a slightly more complicated setup. In this case, there are two computers and two Aurora(n) converters on the Dante network each running at a different sample rate. The ASUS-Z87 computer is running Dante Virtual Soundcard and the second Aurora(n) is following the ASUS-Z87 sample rate.



Each time the sample rate changes on the ASUS-Z87 device (such as when the DAW changes project sample rate on Dante Virtual Soundcard), the second Aurora(n) will also change sample rate to the same rate and any subscribed channels will be automatically reconnected.

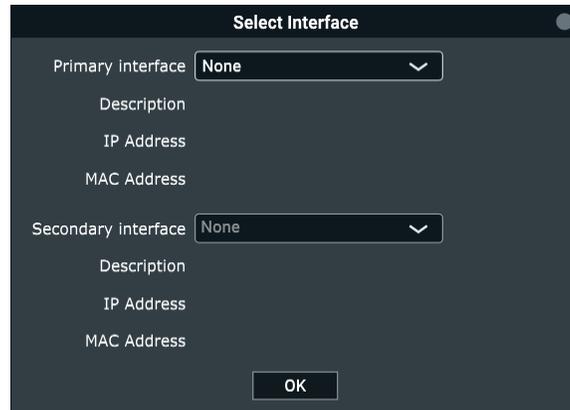
No Device clock leader

If you do not wish to have a device automatically follow the sample rate of another device, set the **Device clock leader** control to **None**. No automatic sample rate change commands will be sent to that device.



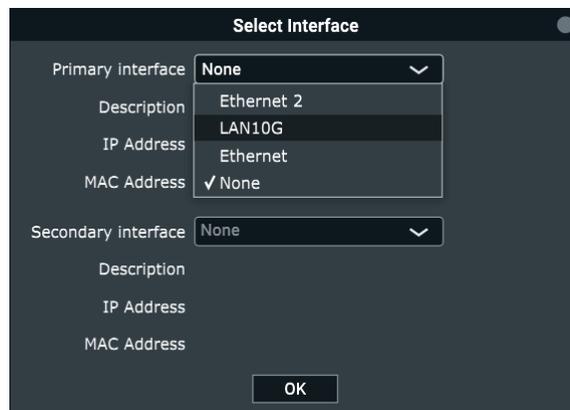
Initial Interface Setup

When the LynxDanteSR application is first installed, it will also install the ConMon and DanteDiscovery packages. If this is the first installation of these packages, the network interface will need to be selected.



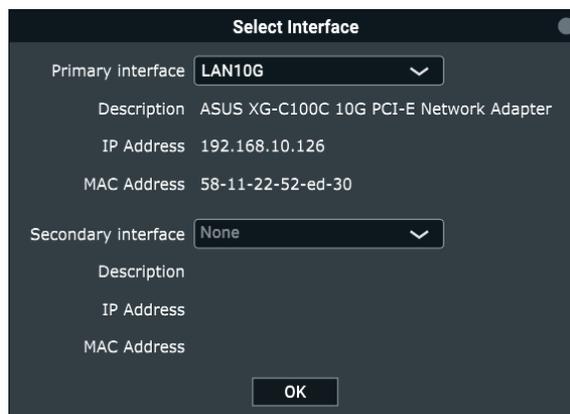
The screenshot shows a dark-themed dialog box titled "Select Interface". It contains two sections: "Primary interface" and "Secondary interface". Each section has a dropdown menu currently set to "None". Below each dropdown are three labels: "Description", "IP Address", and "MAC Address", which are currently empty. An "OK" button is located at the bottom center of the dialog.

Select the Primary interface by clicking on the associated drop-down.



The screenshot shows the "Select Interface" dialog box with the "Primary interface" dropdown menu open. The menu lists four options: "Ethernet 2", "LAN10G" (which is highlighted), "Ethernet", and "None" (which has a checkmark next to it). The "Secondary interface" dropdown remains set to "None". The "Description", "IP Address", and "MAC Address" fields for the primary interface are still empty.

The relevant information will be displayed below the selected Primary interface.



The screenshot shows the "Select Interface" dialog box with "LAN10G" selected in the "Primary interface" dropdown. The fields below it are now populated: "Description" is "ASUS XG-C100C 10G PCI-E Network Adapter", "IP Address" is "192.168.10.126", and "MAC Address" is "58-11-22-52-ed-30". The "Secondary interface" dropdown remains set to "None".

Clicking the OK button will apply the selected interfaces.

About LynxDanteSR

Selecting About... from the menu will show the current information about the LynxDanteSR application.



LynxDanteSR.xml

When the application is closed, it will automatically record the selected settings to the LynxDanteSR.xml file located in:

Windows %APPDATA%\Lynx\LynxDanteSR.xml

Macintosh ~/Library/Application Support/Lynx/LynxDanteSR.xml

If you wish to reset the state of the application, close LynxDanteSR then trash the LynxDanteSR.xml file.

LynxDanteSR.log

The application keeps a log of all commands it sends to Dante devices. This file is located in:

Windows %APPDATA%\Lynx\LynxDanteSR.log

Macintosh Console > Logs > LynxDanteSR.log

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