Applications Team

Topic IP Bridging Configuration

Application
Allowing RollPod Control of an LC4000/MC2000 unit through the IP Bridging feature of an IQ Modular Frame 3U/1U

By

Nikolaos Katsampekis

Engineering Manager-Applications

Contents

1. Introduction

This document describes the steps to be followed to allow for the configuration of IP Bridging between an IQ Frame enclosure and an MSC2000 or LC4000 unit using RollCall Control Panel.

The aim is to control an MC2000 unit from a RollPod control Panel

Figure 1 shows the typical system layout of this communication.

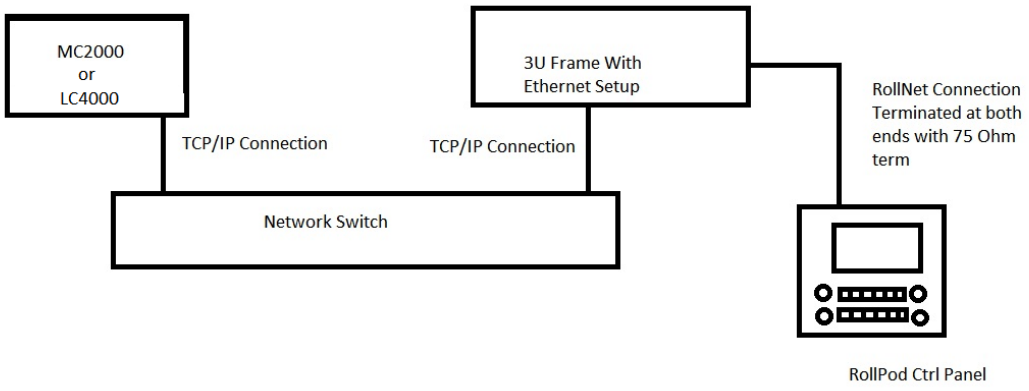

Figure 1: System Layout

2. System Requirements and Initial Setup

- A 3U or 1U Modular Ethernet frame with latest Gateway card code 5.19.19
- RollPod Unit
- MC2000 Unit or LC4000
- Standard Ethernet Switch (part of existing Infrastructure)

For the purpose of this example

The IQ Frame used to generate the IP Bridge connection has an IP address of 172.19.79.30 and Hex address Set to 0x05. This can be changed by adjusting the dials on each gateway card of each frame. (*Note:For IP Bridging to work, the hex addresses on each unit must be unique and in the range 0x01– 0x0F*).

The LC4000 unit has an IP Address of 172.19.81.82

3. Procedure

Step 1:

Start RollCall Control Panel and click the build network button to connect to the unit

(Figure 2).

Type the IP address of the 3U Frame unit in the dialogue box that appears (Figure 3a).
Your Network Tree will show the RollPod Unit and the 3U Frame it is attached to (Figure 3b).

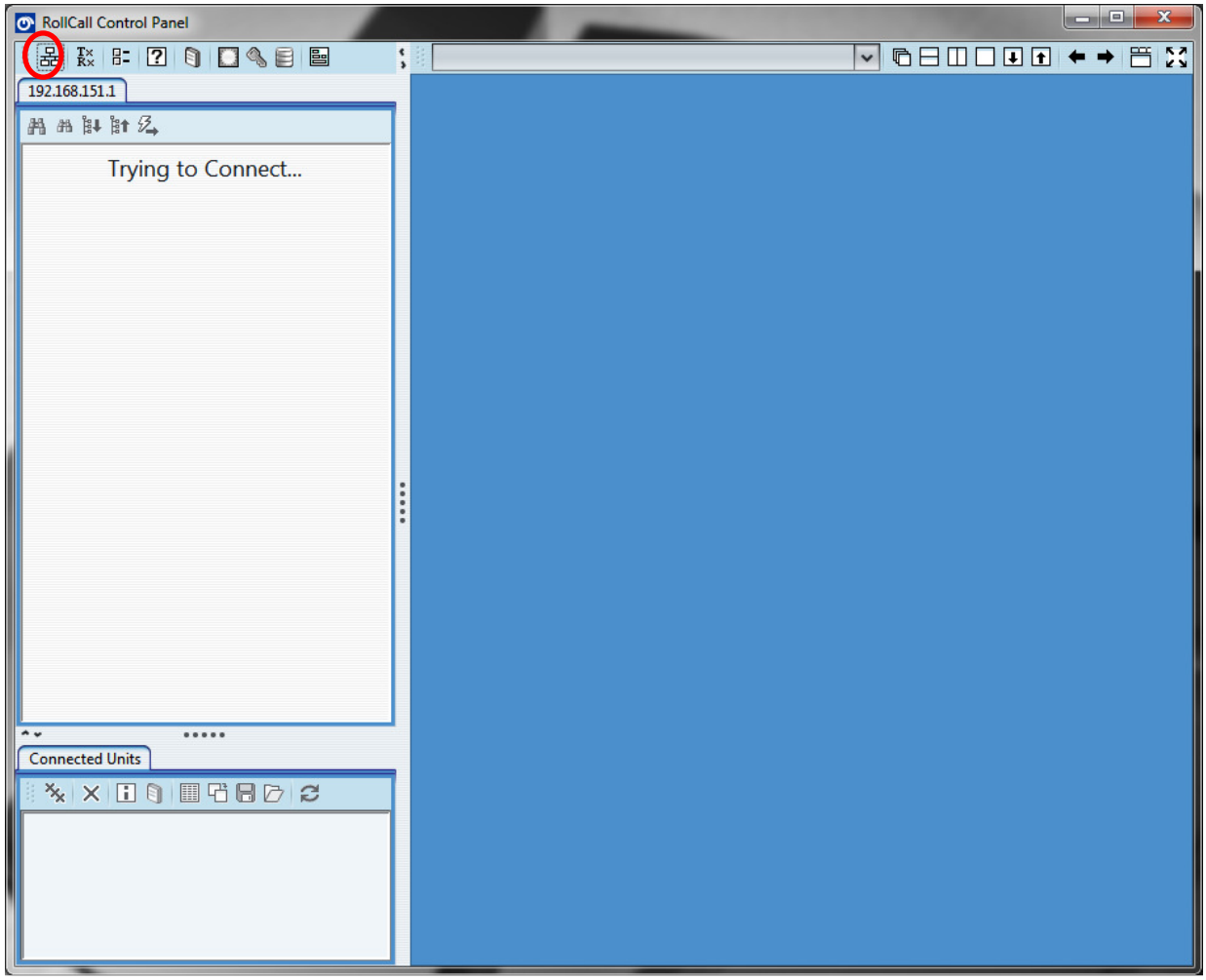

Figure 2: RollCall Control Panel - Build Network

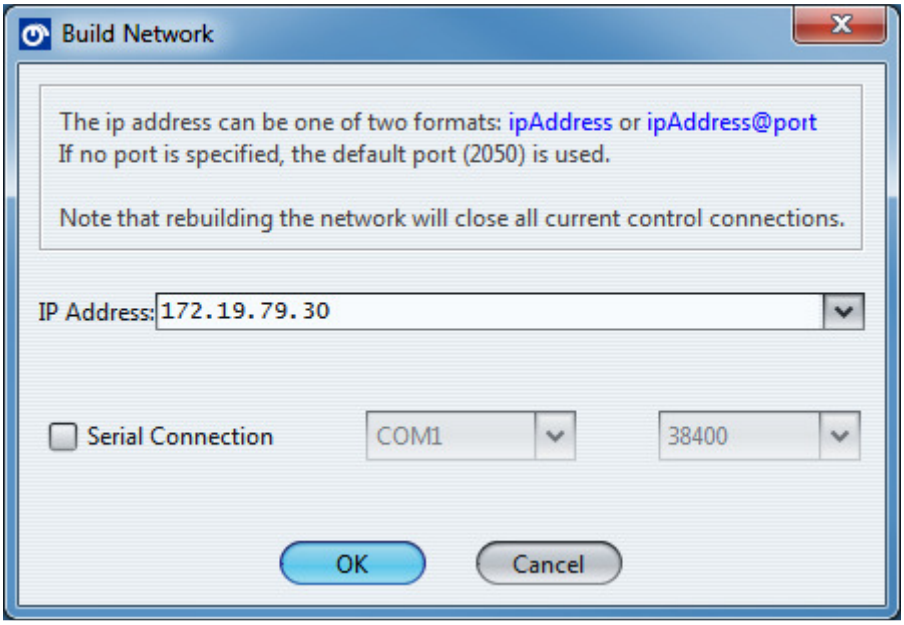

Figure 3a: Build Network Dialogue

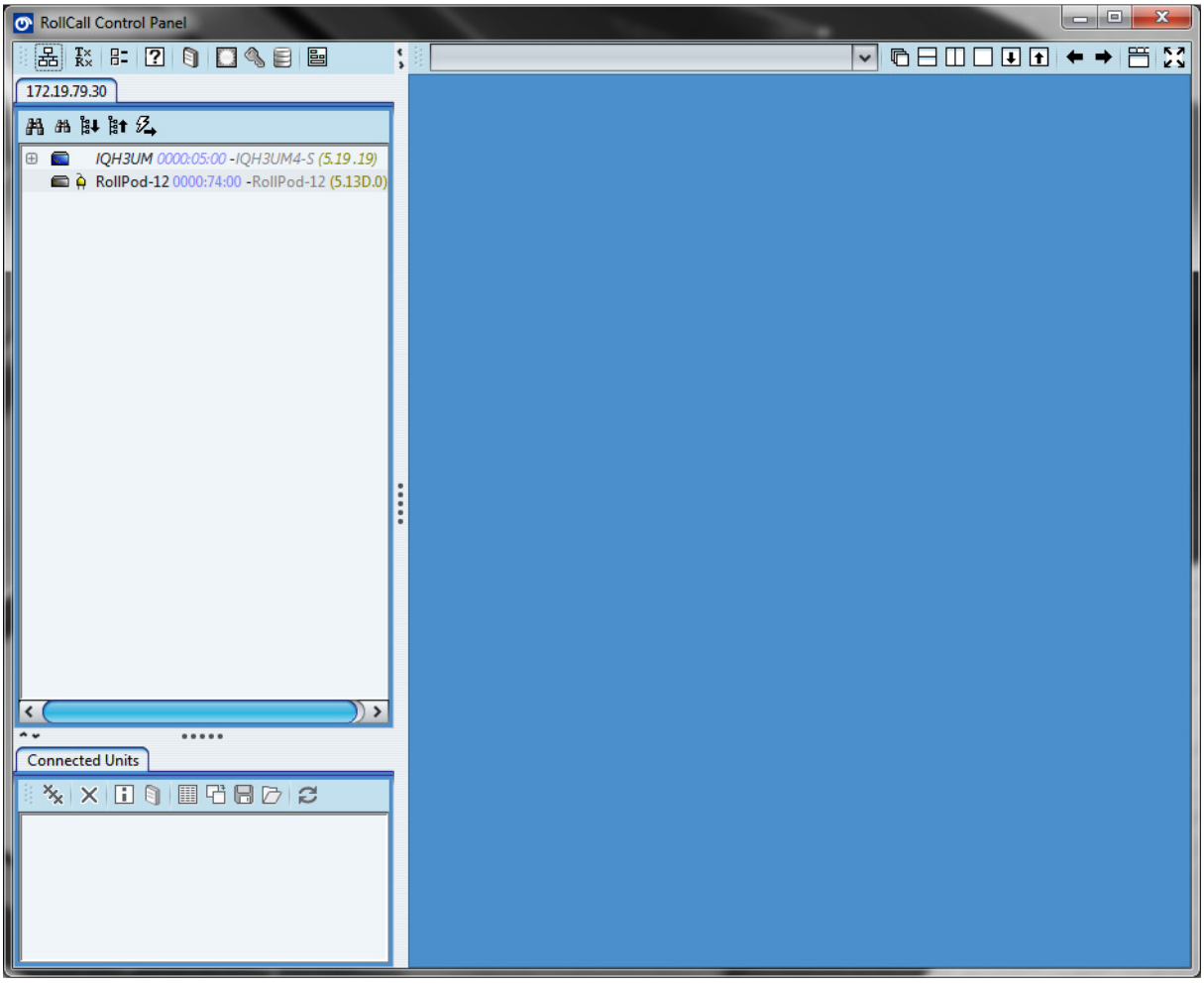

Figure 3b: Network Dialogue

Step 2:

Then right click on the 3U Frame unit listed on the Network Tree and select connect (Figure 4).

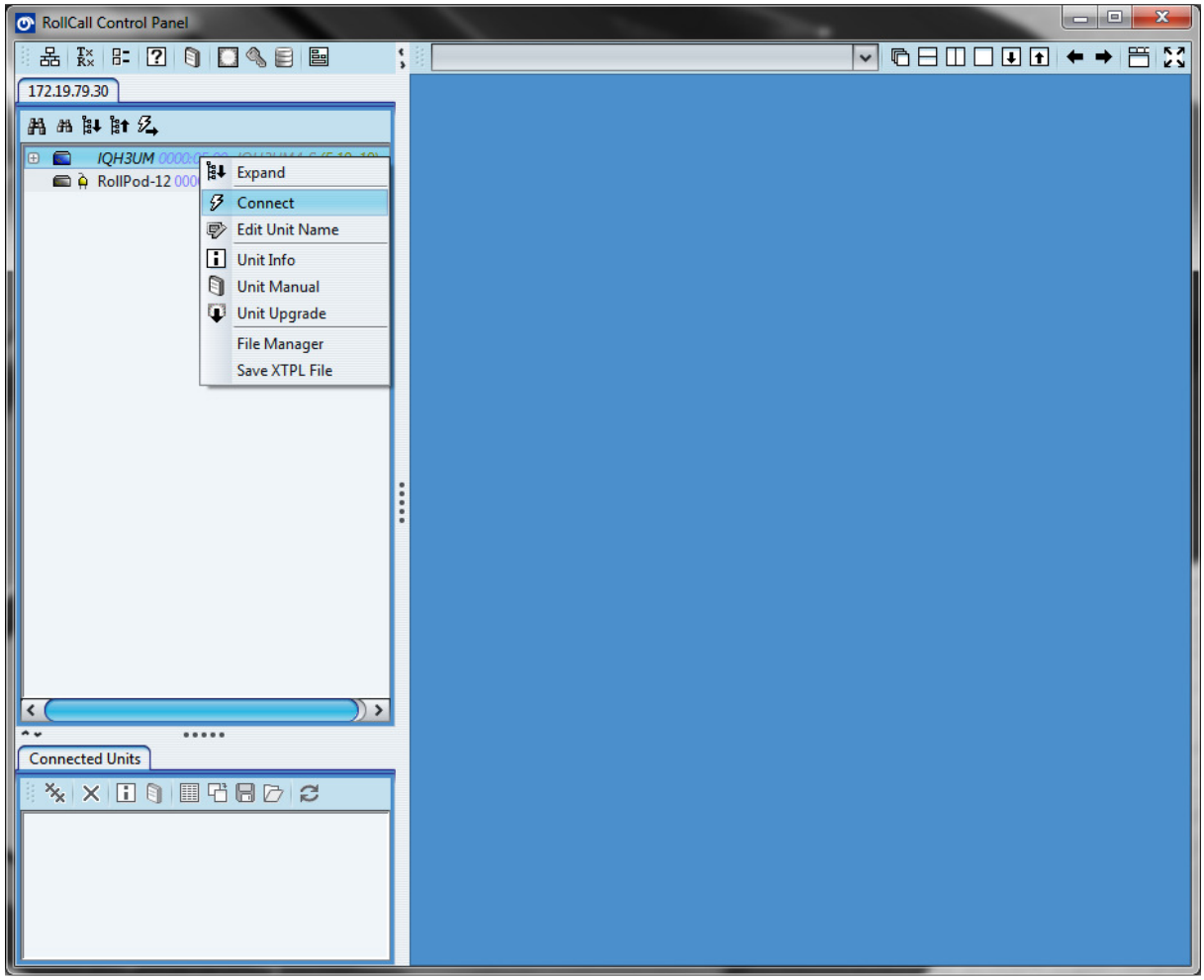

Figure 4: Connect

Step3:

In the right hand pane, select RollCall IP.

In the RollCall IP bridging box enter the IP address of the LC4000 unit to connect to (172.19.81.82) in the “connect to” box and press enter or click the S button (Figure 5).

Select Connect and tick automatic reconnect if required (recommended).

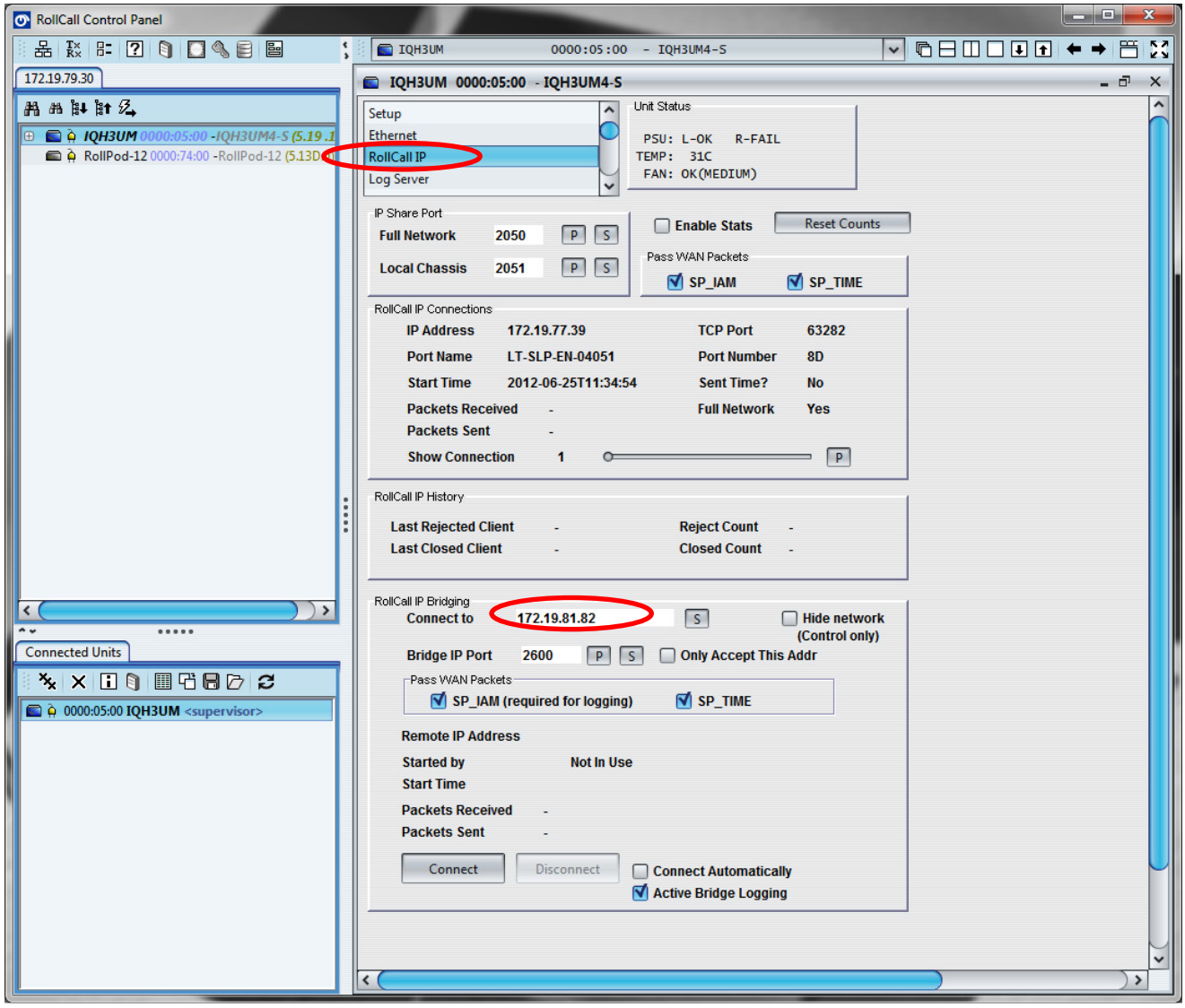

Figure 5: RollCall IP Bridging Setup

Step4:

After successful connection the network list will be updated with the LC4000 unit and any sub-modules available to be controlled via the RollPod (*Note: assuming a suitable RollPod Configuration has been created and the correct procedure of connectivity has been applied*)

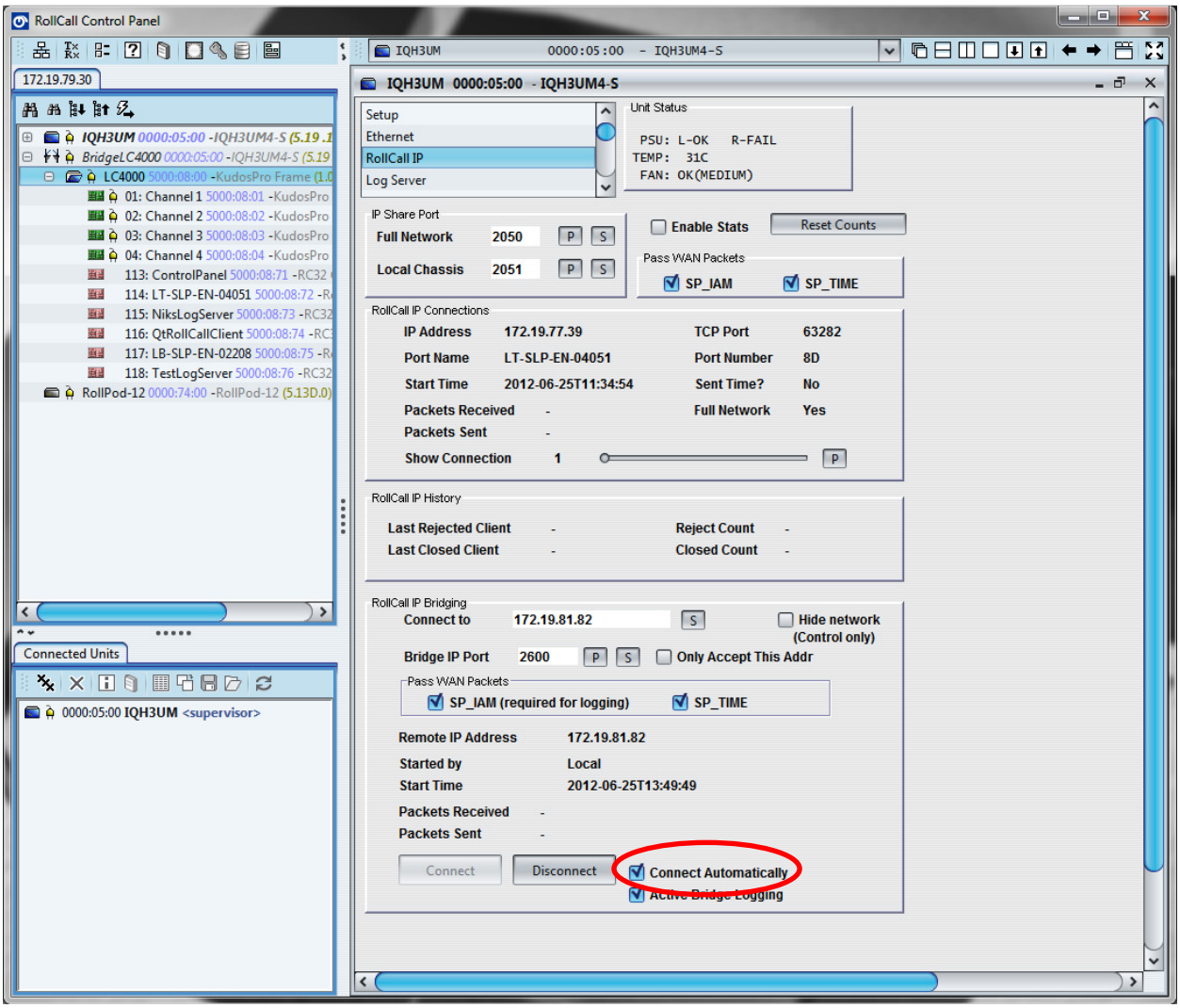

Figure 6: RollCall IP Bridging Connected