

Alltest Instruments, Inc.

500 Central Ave. Farmingdale, NJ 07727

P: (732) 919-3339 F: (732) 919-3332

alltest.net sales@alltest.net

The test & measurement equipment you need at the price you want.

Alltest carries the world's largest selection of used/refurbished benchtop test & measurement equipment at 50% the price of new.

Our equipment is guaranteed working, warrantied, and available with certified calibration from our in-house staff of technicians and engineers.

- 10+ full time technicians with over 150 years of specialization
- 90 day warranty & 5 day right of return on all equipment
- 1-3 year warranties for new and premium-refurbished equipment
- Every unit tested to OEM specifications
- Satisfaction guaranteed

You have plans, we will help you achieve them. *Any project. Any budget.*

Get a quote today!

Call (732) 919-3339 or email sales@alltest.net.



P50xxA/B, P93xxA/B LAN (TCPIP) Remote Communication

Keysight Technologies 24 March 2022

Background

- Keysight Streamline Series product P50xxA/B, P93xxA/B use USB or Thunderbolt interface.
- Hence, a controller PC is required to act as the host, if user would like to access to the P50xxA/B, P93xxA/B off-site remotely from their 2nd PC (other than host PC). Refer to the subsequent pages for solution.

Prerequisites

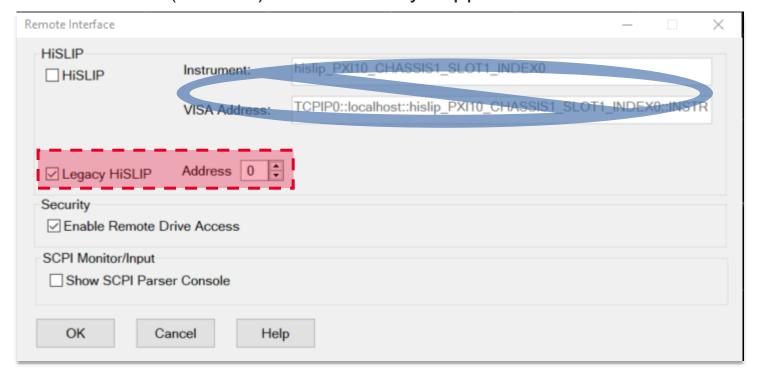
- An "always-on" controller PC connected to LAN, with VNA firmware and Keysight Connection Expert installed.
- VNA firmware needs to be launched on host PC in enabling communications via SCPI command.

Related to VNA Web Help: How to Configure for GPIB, SCPI, and SICL

Step 1: P50xxA/B, P93xxA/B Address Identification

- Launch VNA firmware.
- Navigate to System > System Setup > Remote Interface.
- Identify the Legacy HiSLIP address. Shown is the example with address of 0.

Note: HiSLIP (modern) is not officially supported.

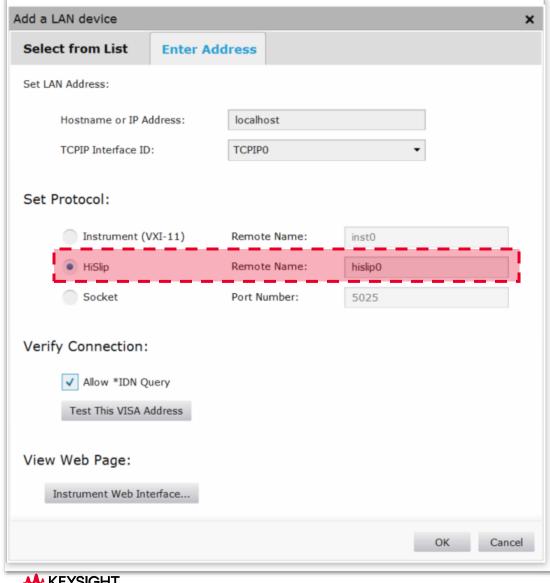


Step 2-1: Create LAN instrument in Keysight Connection Expert



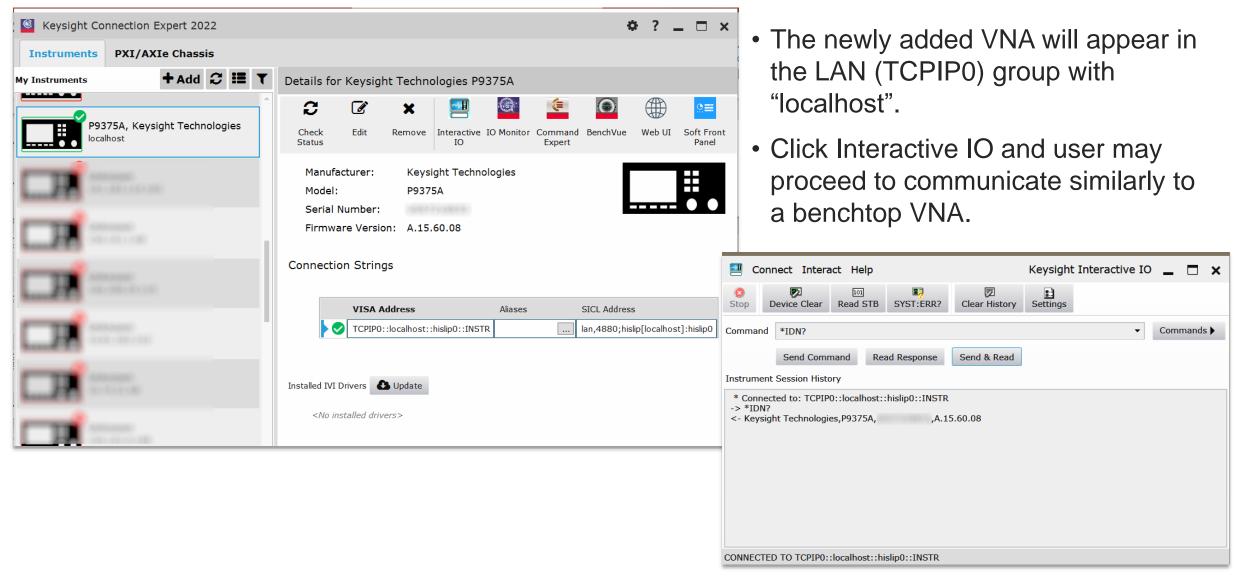
 Launch Keysight Connection Expert. Select Add> "LAN instrument".

Step 2-2: Create LAN instrument in Keysight Connection Expert

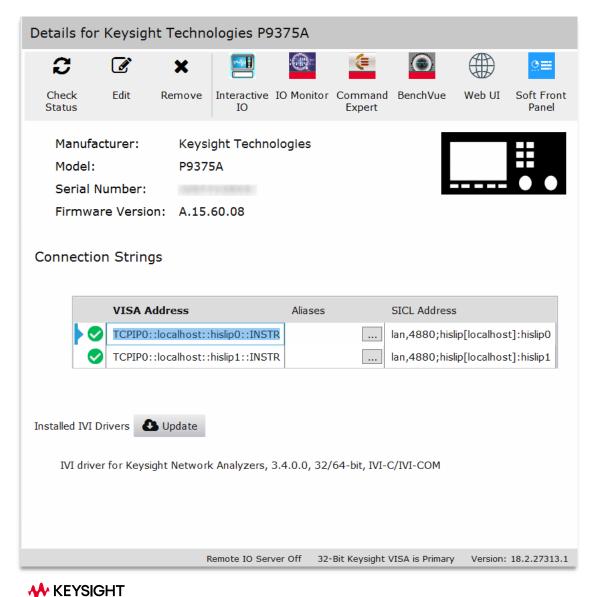


- In the Hostname or IP address, enter "localhost".
- In Set Protocol, select HiSlip. Ensure the address matches with the VNA HiSlip address in VNA Firmware.
- Verify the connection with "Test This VISA" Address".
- Click OK to save the changes.

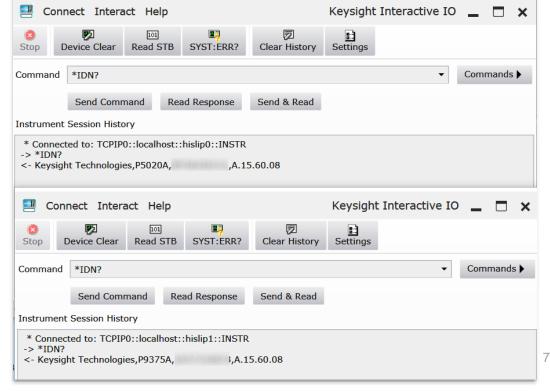
Step 3-1: Communication using LAN (TCPIP) – Single VNA



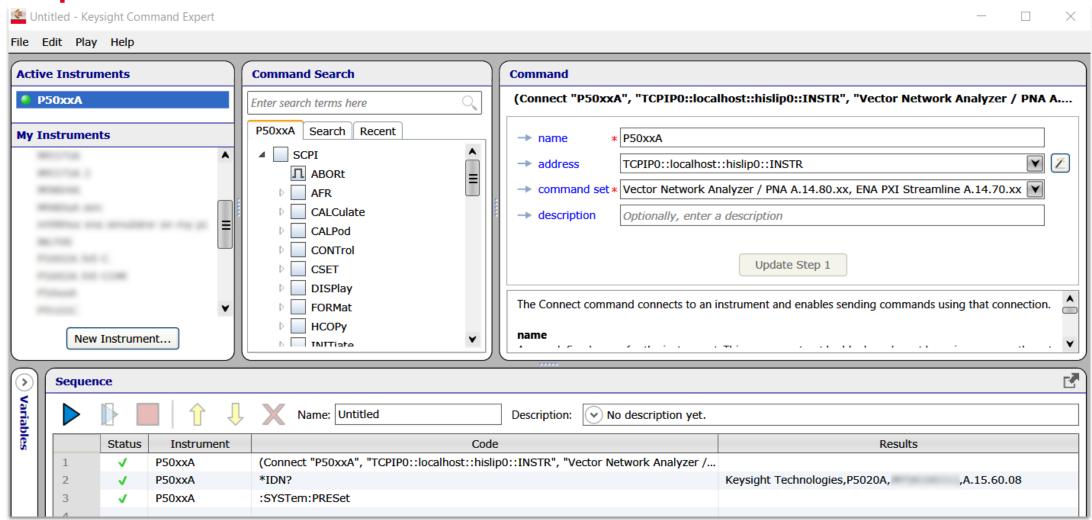
Step 3-2: Communication using LAN (TCPIP) – Multiple VNAs



 For multiples P50xxA/B, P93xxA/B connections, ensure the correct HiSlip addresses (w/o duplicates) are set for individual VNAs respectively. For the following example, address 0 is assigned to P5020A, address 1 is assigned to P9375A.

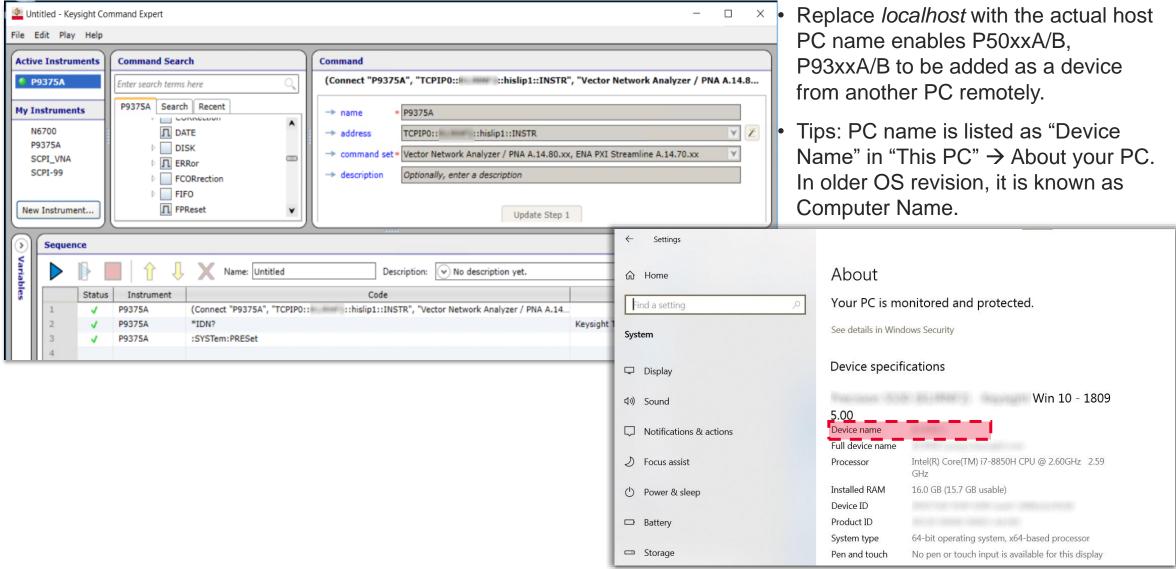


Step 3-3: Communication using LAN (TCPIP) – Keysight Command Expert





Step 4: Communication of VNA using non-host PC via LAN (TCPIP)



KEYSIGHT