Avcom Network GUI Example Scenario

4 Spectrum Analyzers

Analyzer Name	IP Address	Analyzer TCP Port
SLOT#1	192.168.200.1	26500
SLOT#2	192.168.200.2	26502
SLOT#3	192.168.200.3	26504
SLOT#4	192.168.200.4	26506

1 Network GUI Server on a PC

- IP address **192.168.200.149**
- Configured for the GUI Network (CONFIG -> Miscellaneous)
- Set up to display 4 windows
- Each window connects to one analyzer - SLOT#1 to SLOT#4. Set up connection (SA List) entries normally as Connection Type = "LAN"
- The Network GUI Server will automatically listen for Client GUI connections for a given Spectrum Analyzer on a port number that is 100 less than the port number configured on the analyzer.

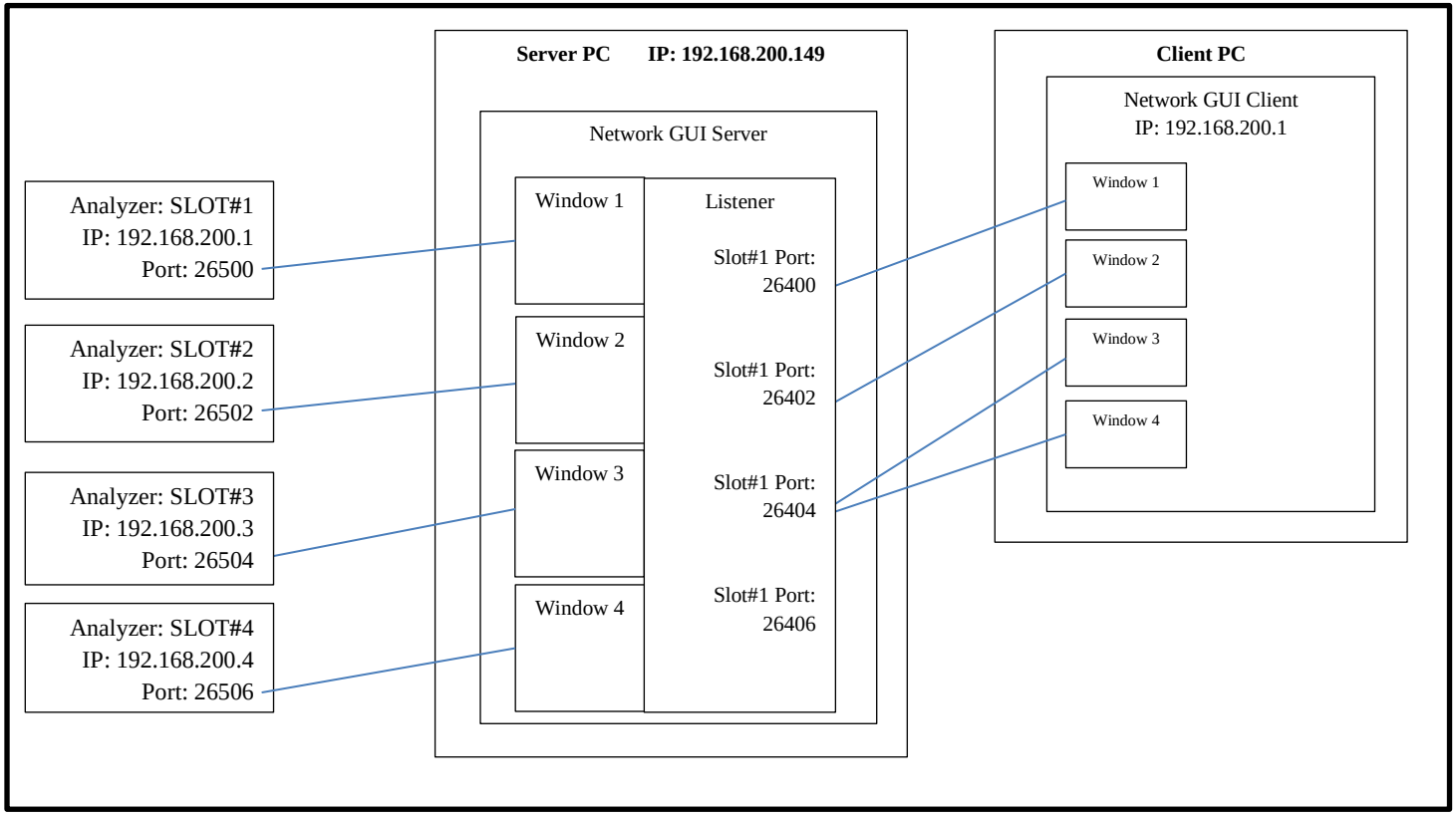
1 PC to act as a Network GUI Client

- Configured for the GUI Network
- 4 connections created in Spectrum Analyzer list for connecting to the 4 analyzers via the Network GUI Server. Connection Type = "LAN – GUI Server"

Analyzer Name	IP Address	GUI Server TCP Port (Listen)	Notes
SLOT#1 (server)	**192.168.200.149**	26400 *	26500 – 100
SLOT#2 (server)	**192.168.200.149**	26402 *	26502 - 100
SLOT#3 (server)	**192.168.200.149**	26404 *	26504 – 100
SLOT#4 (server)	**192.168.200.149**	26406 *	26506 - 100

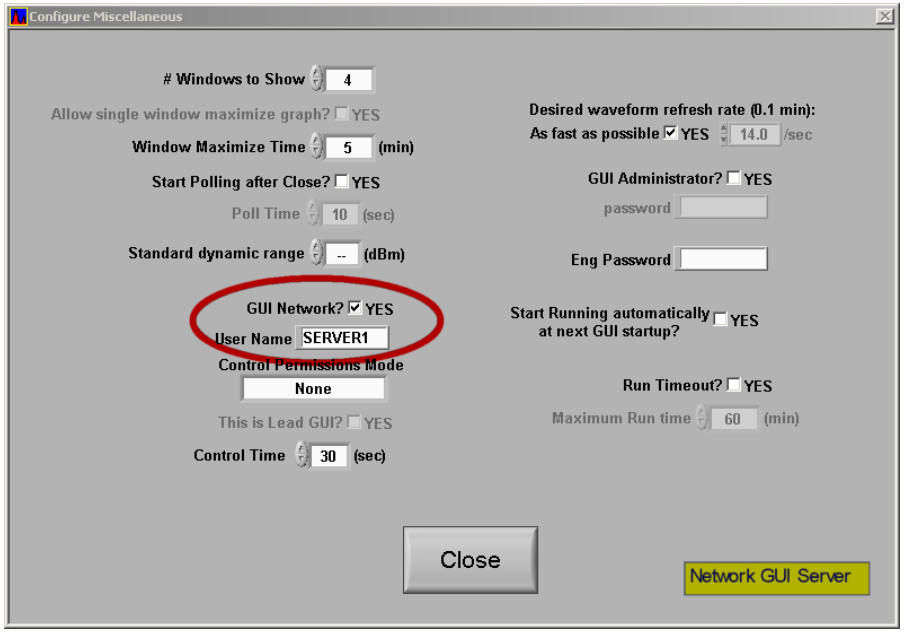
NOTE: * Make sure firewall on Server PC has these ports open for inbound TCP connections

- Set up to display 4 windows
- Each window connects to an analyzer - SLOT#1 (server) to SLOT#4 (server)

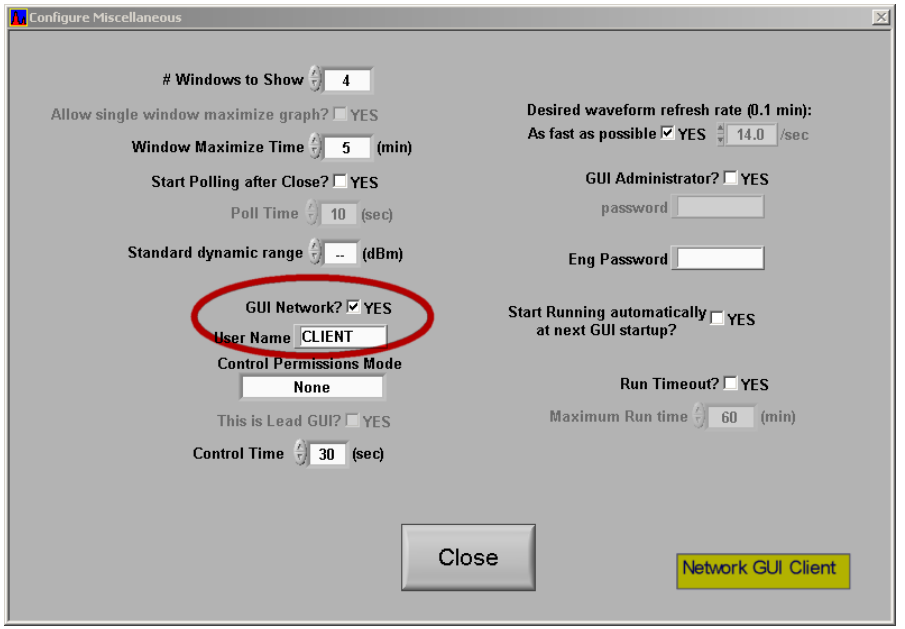

Server PC IP: 192.168.200.149
Network GUI Server
Window 1
Window 2
Window 3
Window 4
Listener
Slot#1 Port: 26400
Slot#1 Port: 26402
Slot#1 Port: 26404
Slot#1 Port: 26406
Analyzer: SLOT#1
IP: 192.168.200.1
Port: 26500
Analyzer: SLOT#2
IP: 192.168.200.2
Port: 26502
Analyzer: SLOT#3
IP: 192.168.200.3
Port: 26504
Analyzer: SLOT#4
IP: 192.168.200.4
Port: 26506
Client PC
Network GUI Client
IP: 192.168.200.1
Window 1
Window 2
Window 3
Window 4

Configuration screen shots

GUI Server PC at 192.168.200.149

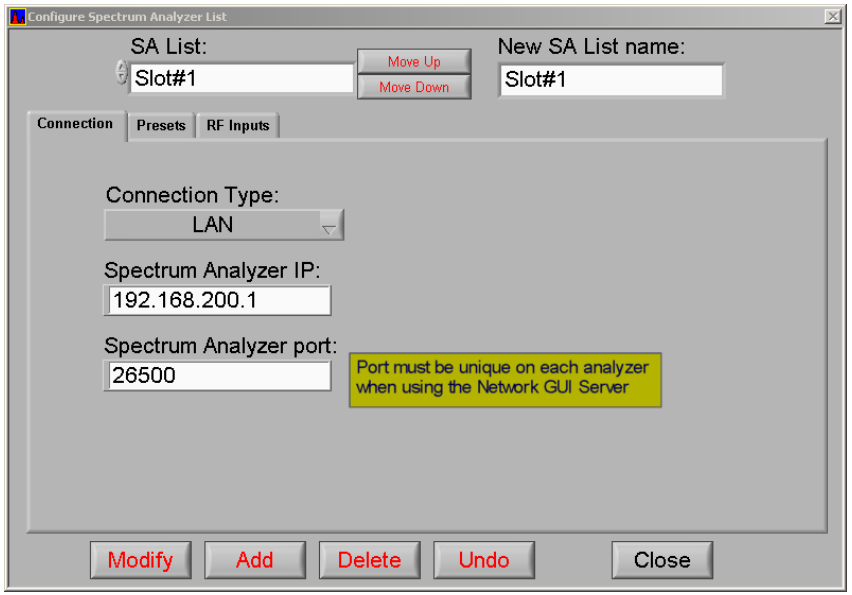


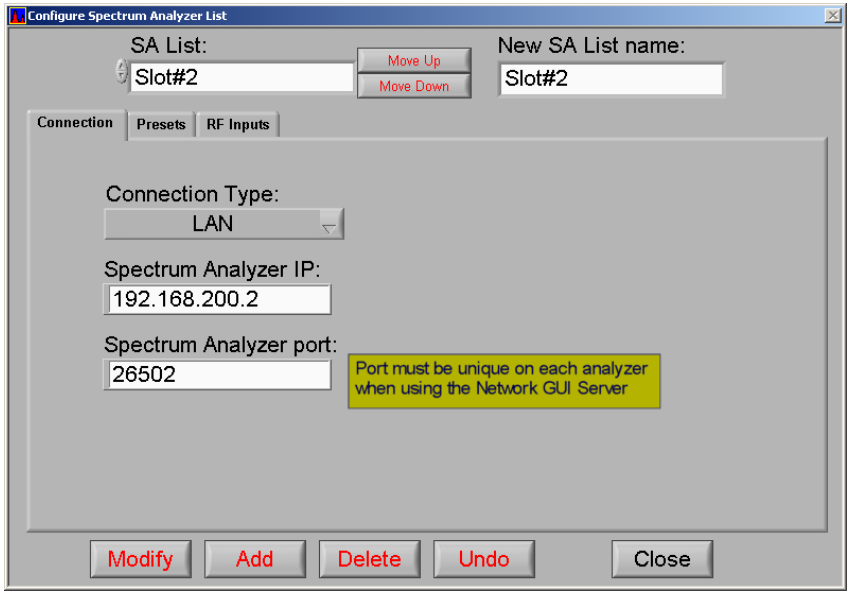
Network GUI Client PC



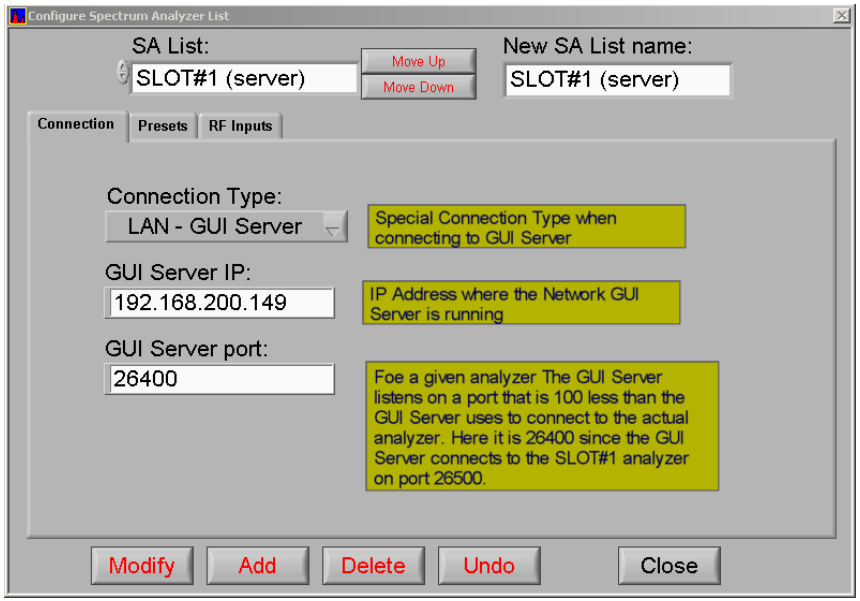
Note: The User Name is useful when using a controlled permissions mode

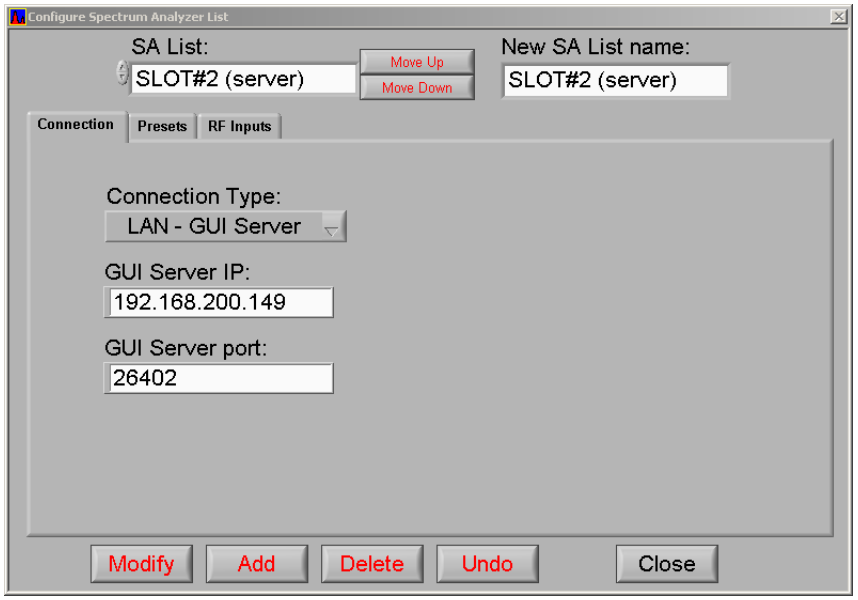
Network GUI Server configures direct connections to analyzers

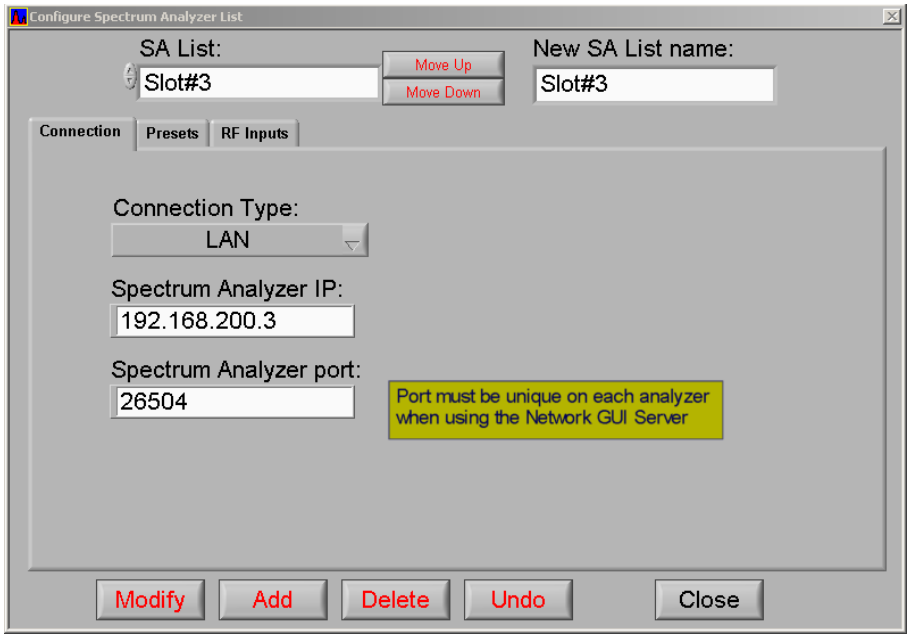


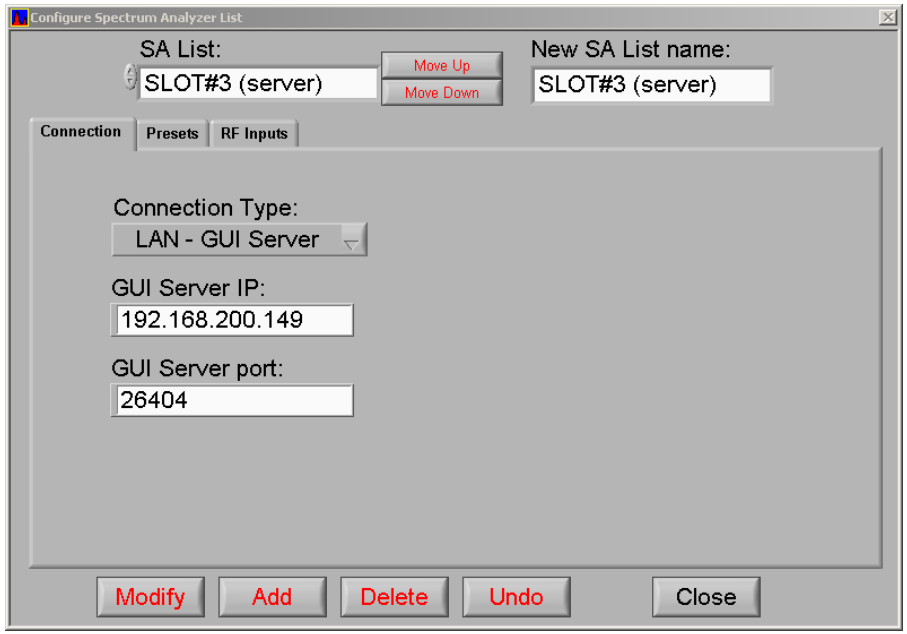


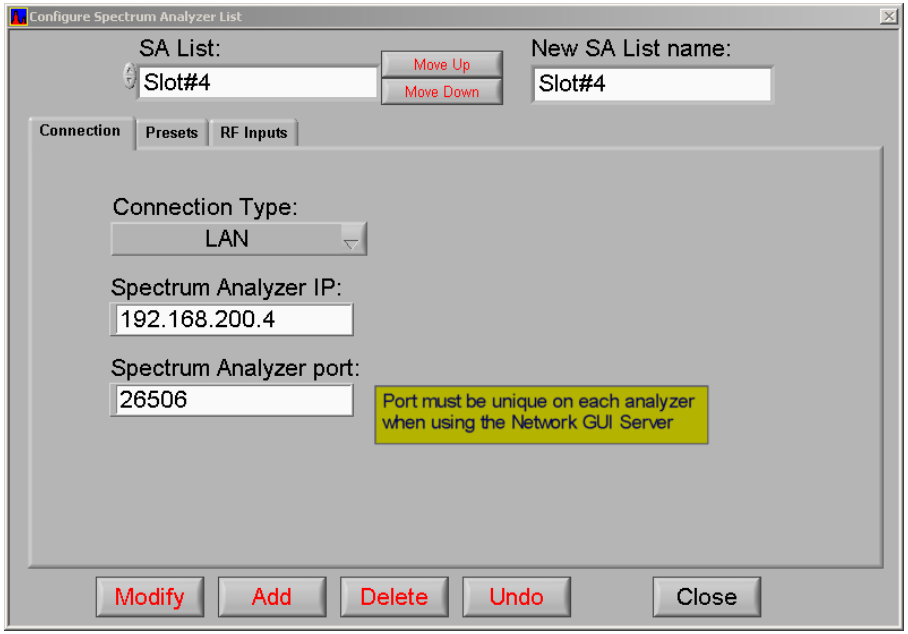
Network GUI Client configures connections to the GUI Server

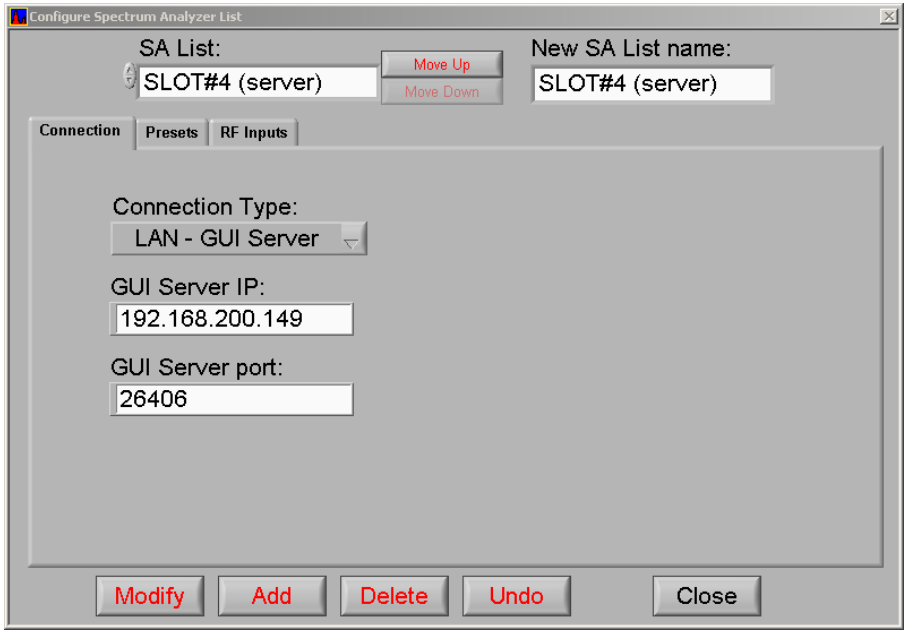





Configure Spectrum Analyzer List
SA List:
Slot#3
Move Up
Move Down
New SA List name:
Slot#3
Connection
Presets
RF Inputs
Connection Type:
LAN
Spectrum Analyzer IP:
192.168.200.3
Spectrum Analyzer port:
26504
Port must be unique on each analyzer when using the Network GUI Server
Modify
Add
Delete
Undo
Close


Configure Spectrum Analyzer List
SA List:
SLOT#3 (server)
Move Up
Move Down
New SA List name:
SLOT#3 (server)
Connection
Presets
RF Inputs
Connection Type:
LAN - GUI Server
GUI Server IP:
192.168.200.149
GUI Server port:
26404
Modify
Add
Delete
Undo
Close


Configure Spectrum Analyzer List
SA List:
Slot#4
Move Up
Move Down
New SA List name:
Slot#4
Connection
Presets
RF Inputs
Connection Type:
LAN
Spectrum Analyzer IP:
192.168.200.4
Spectrum Analyzer port:
26506
Port must be unique on each analyzer when using the Network GUI Server
Modify
Add
Delete
Undo
Close


Configure Spectrum Analyzer List
SA List:
SLOT#4 (server)
Move Up
Move Down
New SA List name:
SLOT#4 (server)
Connection
Presets
RF Inputs
Connection Type:
LAN - GUI Server
GUI Server IP:
192.168.200.149
GUI Server port:
26406
Modify
Add
Delete
Undo
Close