FLUKE networks

OptiView™ Network Analysis and Troubleshooting Training Course

Five-day Course Outline

OptiView™ Integrated Network Analyzer/Workgroup Analyzer (one day)

- **Overview of the Integrated Network Analyzer** - Cover the items shown on the front screen and the various tabs at the top of the screen
- **How Auto-Configuration works** - What are the methods of getting an IP address.
- **Security** - Setting up passwords to limit access.
- **Remote Access** - Downloading and Installing OptiView Remote
- **Upgrading Software** - Where to get the software and the upgrade process
- **Recovering the OptiView** - How to rebuild the OptiView in the case of an operating system failure
- **Cable Testing** - How extensive is the OptiView cable testing?
- **Tools/Switch Statistics** - What the graph tells you. Identifying ports with errors. Locating specific devices on a switch. WAN graphs. Adding a device to the Key Devices. Pinging and Trace Routing to a device. Pulling SNMP stats off a device. Using Traceswitch Route. Using RMON to display historical information.
- **Statistics** - Viewing local utilization. Using RMON enabled devices as a source of utilization statistics. Protocol distribution. Top Host statistics. Using Host Detail to drill into a specific device and using the Back button to get you back to where you were. Using the Filter button to quickly set up a packet filter.
- **Device Discovery** - How it works. Drilling into specific devices. Producing reports. Types of problems seen in the problem tab and what to do about these problems.

Lab Exercises:

1. Connecting the OptiView to the network and using various methods for setting the IP address.

2. Testing a number of good and bad cables. Identify what is wrong with each of the cables and how this might affect the network.

3. Use Device Discovery to determine what devices are connected to the network. Produce a report showing all of the devices.

4. Use Switch Statistics to drill into the classroom switch. Use the sort options to identify the most used ports and the ports with the most errors. Use SNMP to determine the location and contact information for the switch. Use RMON to look at the last 10 hours of traffic on the uplink port.

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OptiView Protocol Expert/Link Analyzer Operation (two days)

- **Installing Protocol Expert** - Discuss Taps, Capture Cards and Login information.
- **Tour of Protocol Expert** - Go over the Summary View screen. Discuss capture resources, message window. Emphasize difference between the Summary View and the Detail View. Go into Detail View. Show graphs and tables. Brief overview of Expert and Response Time windows.
- **Capturing Packets** - How to select a resource and start capturing.
- **Viewing Packets** - After packets have been captured, how do we look at them. Discuss the various panes, Summary, Detail and Hex. Searching for text.
- **Configuring Alarms** - What to watch for. How to set up an alarm.
- **Display Filters** - Using the tables to quickly create filters. Turning filters off and on. Saving and Opening filters.
- **Capture Filters** - Creating Capture Filters. Loading capture filters from Summary View.
- **Expert Analysis** - What does Expert Analysis tell us. What are some of the common problems and what can be done to fix them.
- **Configuring the Link Analyzer** - Connecting the serial cables to initially set up the IP address information on the analyzer. Connecting the cables for full duplex analysis. Accessing the Link Analyzer from Protocol Expert.
- **Accessing Remote Resources** - Accessing Link Analyzers and other machines running Protocol Expert, that have the remote option loaded. Changing user IDs and passwords.

Lab Exercises:

1. Capturing Packets.

2. Searching a trace file for specific text.

3. Setting up Display Filters.

4. Setting up Capture Filters

5. Setting up Alarms.

6. Using Expert Analysis to find problems.

7. Exporting Graphs and Tables

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Five-day Course Outline

OptiView Console 6.0 Operation (Network Inspector) (one day)

- **Overview of Console Architecture** - Agent placement and console placement.
- **Agents** - How to install. System Requirements. Repeat where they should be placed.
- **The Console** - How to install. Setting up databases. How to collect information from the Agents. Configuration options. Device summary screen. Collecting information from OptiViews.
- **The Properties Screen** - Nearest Switches. Service information. SNMP information. Utilization graphs.
- **Reports** - Types of reports. Formats that can be produced. Changing the logo at the top of the report. Automatic generation of reports.
- **Network Maps** - Using Visio to generate maps of the network.

Lab Exercises:

1. Setting up an Agent and Console.

2. Collecting information from a Remote Agent.

3. Collecting information from an OptiView.

4. Locating a device in the network.

5. Producing inventory reports.

6. Mapping out the network.

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OptiView™ Network Analysis and Troubleshooting Training Course

Five-day Course Outline

OptiView Wireless Network Analyzer Operation (1/2 day)

- **Overview of OptiView Wireless** - Learn how to discover access points, get important information about them, and generate reports using the OptiView Wireless Network Analyzer (OV WNA). This portion of the class goes over all the information and tests available to you and how to access that information from the OV WNA.
- **Access point information**
  - Discover access points on your network and where they are located
  - Find out who is connected to them
  - Learn what types of traffic are going in and out
- **Client information**
  - Use the OV WNA to discover similar information about clients on your network
- **Site Surveys**
  - Learn how to do a site survey with the OV WNA
  - Find access points that are approved
  - Find rogue access points
  - Determine the difference between approved and rogue access points
- **Packet Capture**
  - Learn how to capture packets on a wireless network with the OV WNA
  - Know what to capture and what not to capture
  - Discover why this information is important for troubleshooting wireless network issues

NETWORKSUPERVISION

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Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to **www.flukenetworks.com/contact**.

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