

Ethereal Line Trace Utility

Ethereal is an open source software program that is freely available for downloading and using. General information about Ethereal can be found at <http://www.ethereal.com>.

Ethereal Downloads

Ethereal requires two separate applications to capture a line trace. These must both be installed to capture line traces.

1. Go to the Ethereal download site:
<http://www.ethereal.com/download.html>
2. Under the Windows 98/ME/2000/XP/2003 Installers, choose a FTP site such as USA.
3. Download the most recent Ethereal file such as “ethereal-setup-0.10.8.exe”.
4. Download the most recent packet capture utility such as “WinPcap_3_0.exe”.

Ethereal User Documentation

User documentation can also be downloaded from:

<http://www.ethereal.com/docs/#resources>

Novell Technical Information Document References

The following references can be found on Novell's support Web site and are included for the user's reference only. The information presented on the TID may not represent the most current version of Ethereal, but may still be useful in learning how to use Ethereal.

How to configure a capture filter for Ethereal

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10084702.htm>

How to use Ethereal to capture a packet trace

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10070788.htm>

How to find or filter information in Ethereal

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10084747.htm>

How to quickly identify error conditions with Ethereal.

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10084809.htm>

How to print packets with Ethereal

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10084852.htm>

How to open, mark, and convert files with Ethereal

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10084977.htm>

Quick Setup Instructions

The following are the instructions on how to find, download and run the Ethereal software.

1. Create a new folder on the desktop and call it 'Ethereal'.
2. Go to: <http://winpcap.polito.it/install/default.htm>
3. Select: WinPcap auto-installer (driver +DLLs) and SAVE to the Ethereal folder.
4. Next go to:
http://prdownloads.sourceforge.net/ethereal/ethereal-setup-0.10.8.exe?use_mirror=internap
5. Select any of the download options and SAVE to the Ethereal folder.
6. Once downloads are completed:
7. Go to Ethereal Folder and double click on the WinPcap file and perform install (use default settings).
8. Perform same for Ethereal file.
9. Once both files have been extracted, a new icon should have been created on the desktop - double click to open.
10. Select Capture, Capture Filters, New
11. Name: Host
12. String: host 111.222.333.444 (enter the IP address of the printer or device to capture)
13. Save and Close
14. Select Capture, Start, Capture Filter, Select: Host, OK (Capture Starts)
15. Once this Capture has started, a Communications Trace can also be done on the AS400.
16. Perform the same type of print jobs from the AS400 to the printer. Once completed (or stuck in pending for approximately 5 minutes), the Communications Trace and Capture can be stopped. Save both files and e-mail to I-O Corporation.

NOTE: Make sure that the PC is located on the same Ethernet link as the printer. If a Ethernet switch is used, it may be necessary to open the connection the PC is on so the Ethereal capture software can see all LAN traffic going to and from the printer. If the switch does not have this capability, then it will necessary to install a "hub" and connect both the PC and the printer to the hub.