

Configuring your wireless to WPA2 (AES)

Encryption

Quick Installation

Windows XP

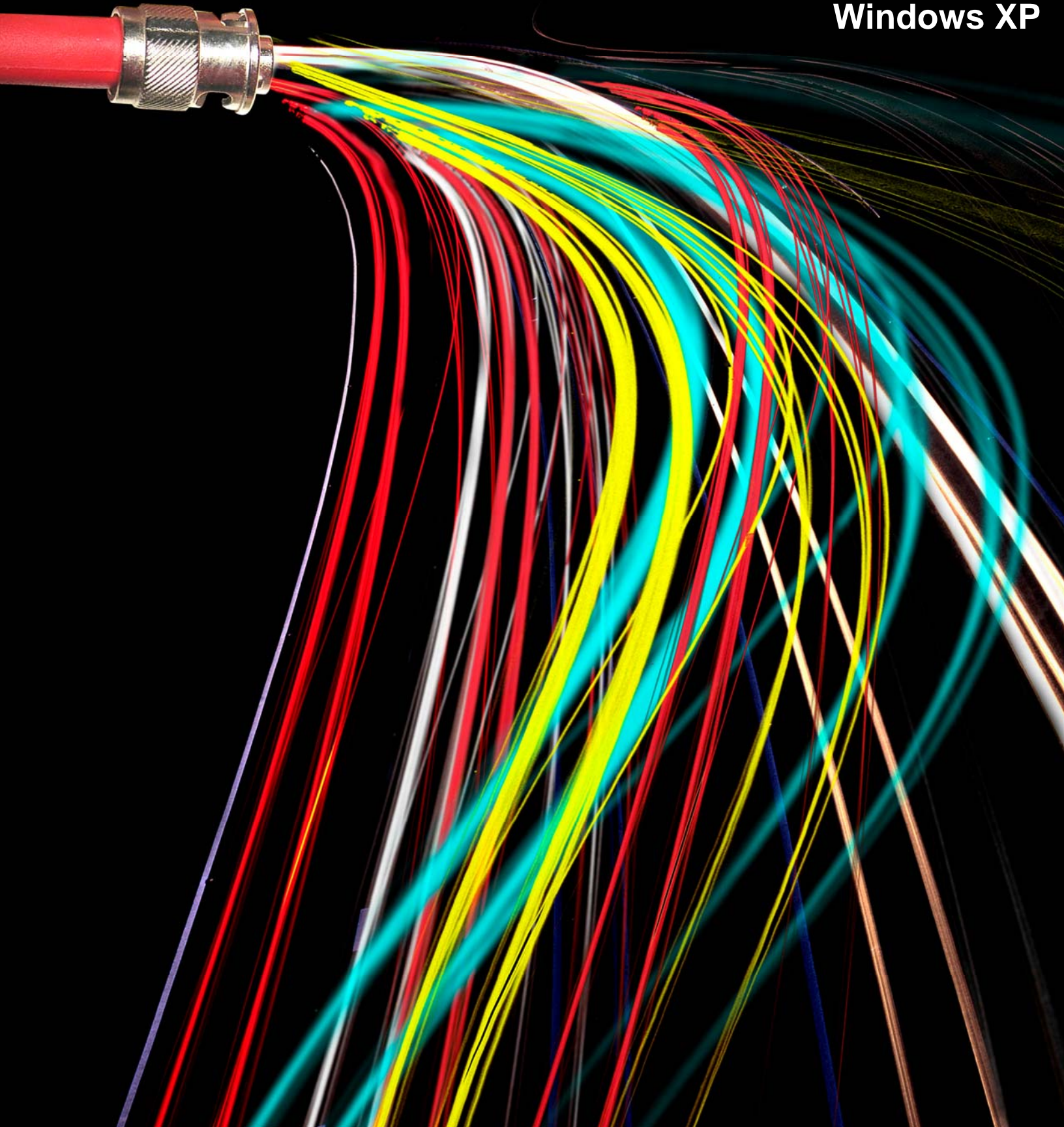


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1 About this guide

This document will show you step- by-step how to configure your Wireless system to the University of Louisville's wireless authentication system.

Chapter 1, "About this Guide."

Chapter 2, "Introduction" gives an overview of the purpose and scope of the University of Louisville's wireless authentication system

Chapter 3, "Configuring the Wireless Connection", gives step-by-step instructions for configuring your wireless connection for on-campus use

Chapter 4, "Frequently Asked Questions" provides answers to common questions about the configuring your software

1.1 Who Should Use It

This guide is intended for users connecting to the University of Louisville's on-campus wireless network using a laptop or PC running Windows XP operating system.

1.2 Typographical Conventions

This document uses the following typographical conventions:

Command and option names appear in bold type in definitions and examples. The names of directories, files, machines, partitions, and volumes also appear in bold.

Variable information appears in italic type. This includes user-supplied information on command lines.

2 Introduction

2.1 Purpose

The purpose of this document is to provide step-by-step instructions for the configuration of UofL_Wireless 2.1:

- UofL_Wireless 2.1 is a wireless registration system available to faculty, staff, and students for on-campus connection. It is a secure network that encrypts traffic on the network to prevent intrusions and interception of traffic
- All users of the UofL_Wireless 2.1 connection must have their local machines set to WPA2/AES encryption in order to forge a connections to the wireless infrastructure on-campus
- The intended audience of UofL Wireless 2.1 are faculty, staff, students or UofL guests who use a wireless connection to link to the Internet

2.2 Scope

This document describes how to configure a Windows XP machine to access to the University's secured wireless network. If you are not a UofL faculty, staff or student, please see the documentation for guest wireless access.

3 Configuring the Wireless Connection

1. Go to the Start menu Click **Start > Connect to > Wireless Network Connections**.
2. Then, click on the **Change advanced settings** listed under the "Related Tasks" menu on the left side of the window. You should see at least two tabs: **General** and **Wireless Networks**.
3. Click the **Wireless Networks** tab. Check **Use Windows to configure my wireless network settings** and then click **Add**.
4. Type **ulsecure** under **Network name (SSID)** and select **WPA2 Enterprise** for **Network Authentication** and **AES** for **Data Encryption**.
5. Click the **Authentication** tab and select **PEAP** as the **EAP type**.
6. Click on the **Properties button** and verify that the **Validate Server Certificate** box is checked.
7. Under **Select Authentication Method**, verify that **Secured Password (EAP-MSCHAP v2)** is selected, if not use the drop down menu to select this setting, and then click the **Configure** button, and *make sure* that the check box to "**Automatically use my Windows logon name and password**" is unchecked.
8. Click **OK** in the last window and all of the remaining windows.
9. Click on the message pop up at the lower right corner of your desktop that says **Wireless Network Connection**.
10. The **Enter Credentials** window will appear, enter your **ULINK** username and password and leave the "**Logon Domain**" field empty and click ok.
11. Another **Wireless Network Connection** bubble will appear, click on it and a **Validate Server Certificate** will appear, click on the **OK** button.

The connection should be established soon after this process is completed however you may have to wait a moment for the validation to occur in your system tra