# Wireless Configuration Guide: Windows XP

Additional **hopkins** wireless network instructions and requirements for Windows 8, 7, Vista, Mac OS X, and Linux, and other Mobile versions can be found at: http://www.it.johnshopkins.edu/services/network/wireless/

The Johns Hopkins Institutions offer the **hopkins** wireless network to faculty, staff, students, or anyone with a valid JHED ID. The **hopkins** wireless network utilizes WiFi Protected Access (WPA2) with 256-bit Advanced Encryption Standard (AES), to provide a high level of security and access.

## **Requirements for Windows XP:**

- 1. You will need an active JHED ID for authentication. If you don't know your JHED userid and password, please follow the steps in the **How do I find out my JHED account information** section.
- 2. Windows XP with a minimum of Service Pack 3 must be installed. Please follow the steps in the **Service Pack Verification** section, to determine if you are running at least SP3.
- 3. A wireless network adapter that supports WiFi Protected Access (WPA2-Enterprise).
- 4. Your network card must also support Microsoft's Wireless Zero Configuration (WZC) Service. Most new wireless network cards support WZC. However, if you are unsure if your network card supports WZC, check your vendor's online support or contact the vendor directly.
- 5. You must have the current drivers for your network card, which are usually available from the PC vendor's web site.
- Microsoft System Center Endpoint protection (SCEP) must be installed. It is free for Hopkins affiliates, and can be downloaded at <u>http://it.johnshopkins.edu/antivirus/</u>.

**NOTE**: Windows 9x, Windows Me, and Windows 2000 are not supported. If your computer has 802.11b and/or 802.11g support but doesn't support WPA2-Enterprise, you can still attain wireless access through JHGuestnet. For more information, visit http://www.it.johnshopkins.edu/services/network/wireless/

If you meet all the above requirements, please proceed to the **How to configure Windows XP for "hopkins" wireless.** 

### How do I find out my JHED account information?

The following steps will allow you to activate your JHED ID. You will need access to a wired (ethernet) connection.

Step 1: Open a web browser and go to <u>http://my.johnshopkins.edu</u>.

Step 2: Click the First Time JHED User link.

**Step 3:** Follow the instructions on the login page to find out your Login ID and to set your password.

JHED account and Active Directory credentials should be the same except for some grandfathered accounts. If you have issues with signing in when asked for your User ID and password, please contact the Help Desk, (410) 955-HELP, to correct the issue.

### Service Pack Verification:

Click the **Start** button, scroll up to **Settings**, and select **Control Panel** from the submenu. In the window that opens, double-click on the **System** control panel.



If you don't see a minimum of "Service Pack 3", you must install it to access the wireless network. See the following website for downloading instructions: <u>http://technet.microsoft.com/en-us/windows/windows-xp-service-pack-3.aspx</u>

### How to configure Windows XP for "hopkins" wireless:

Step 1: From the Start Menu, click on Connect To and select Show all connections.



**Step 2: Highlight** the Wireless Network Connection, and right click. Select **Properties** at the bottom of the menu.

NOTE: Your wireless card must be enabled to make changes.



### Step 3:

You should now see the wireless network properties. Select the **Wireless Networks** tab. If **hopkins** is already present in the list of preferred networks, select it and click **Remove**.

Then click **Add**.

+ Wireless Network Connectio <table-cell></table-cell>
General Wireless Networks Advanced
Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks: Automatically connect to available networks in the order listed below:
Phopkins (Automatic) Move up
Move <u>d</u> own
Add <u>R</u> emove Properties
Learn about <u>setting up wireless network</u> Ad <u>v</u> anced
OK Cancel

### Step 4:

In the SSID field, enter **hopkins**. The **Network Authentication** should be set to **WPA2**. The **Data Encryption** should be set to **AES**.

Wireless netwo	rk properties 👘 🛛 🔀	
Association Authentication	Connection	
Network name (SSID):	hopkins	
- Wireless network key		
This network requires a	key for the following:	
Network Authentication:	WPA2 💌	
Data encryption:	AES	
Network <u>k</u> ey:		
Confirm network key:		
Key inde <u>x</u> (advanced):	1	
✓ The key is provided f	or me automatically	
This is a <u>c</u> omputer-to-computer (ad hoc) network; wireless access points are not used		
	OK Cancel	

#### Step 5:

Click on Authentication Tab:

For EAP Type, choose Protected EAP (PEAP)

**Uncheck** "Authenticate as computer when computer information is available" **Uncheck** "Authenticate as guest when user or computer information is unavailable" Click on the **Properties** button for Protected EAP properties.

Wireless ne	twork proper	ties 🔹 🛛 🛛
Association	Authentication	Connection
Select this wireless Et	option to provide hernet networks.	authenticated network access for
✓ <u>E</u> nable	IEEE 802.1x auth	nentication for this network
EAP type:	Protected EAP	(PEAP)
		Properties
Authen	ticate as <u>c</u> ompute	er when computer information is available
Authen unavail	ticate as guest wł able	nen user or computer information is
		OK Cancel

**Step 6:** In the "Protected EAP Properties" Window do the following:

- 1. In the "Validate server certificate" section, all boxes should be unchecked.
- 2. In "Select Authentication Method;" choose Secured Password (EAP-MSCHAP v2).
- 3. Check the "Enable Fast Reconnect" box.
- 4. Click Configure.

Protected EAP Properties	×
When connecting:	
Trusted Root Certification Authorities:         Entrust.net Certification Authority (2048)         Entrust.net Secure Server Certification Authority         ePKI Root Certification Authority         Equifax Secure Certificate Authority         Equifax Secure eBusiness CA-1         Equifax Secure Global eBusiness CA-1	
Do not prompt user to authorize new servers or trusted certification authorities.	
Select Authentication Method:         Secured password (EAP-MSCHAP v2)         ✓ Enable Fast Reconnect         Enable Quarantine checks         Disconnect if server does not present cryptobinding <u>T</u> LV         OK       Cancel	

#### Step 7:

**Uncheck** the "Automatically use my Windows logon name and password (and domain if any)" box and click **OK**.

Click **OK** in Protected EAP Properties box. Click **OK** in the Wireless Network Properties box. Click **OK** in the Wireless Network Connection Properties box.

This will bring you back to the main desktop.

EAP MSCHAPv2 Properties		
When connecting:		
Automatically use my Windows logon name and password (and domain if any).		
OK Cancel		

#### Step 8:

**Click** on the message **"Wireless Network Connection,"** which you will see on the bottom right of your screen.



#### Step 9:

Please enter your Credentials: For **User name**, enter your **JHED ID**. For **Password**, enter your **JHED Password**. For **Logon** domain, enter **WIN**.

Enter Cre	dentials
<u>U</u> ser name;	JHED_ID
Password:	•••••
Logon domain:	WIN
	OK Cancel

You will then receive a message that the wireless network connection is now connected.



You are now on the network!

### JHARS Registration Required for First-Time Users:

#### **Step 10:**

Open a new web browser window. If this is your FIRST time connecting this device to a wireless network at Johns Hopkins, you will be directed to our JHARS registration website. If you are not redirected, please type <u>http://jhars.nts.jhu.edu</u>. Click **Log On** to continue.



#### Step 11:

You may be prompted by a certificate warning, depending on what version and type of web browser you are using. Please click **Continue to this website**.

Certificate Error: Navigation Blocked - Windows Internet Explorer	
🚱 🗣 🖉 https://jhars.nts.jhu.edu/jhars/default.cfm	earch
😭 🏶 🍘 Certificate Error: Navigation Blocked	🖶 🔹 🔂 <u>P</u> age 🕶 🎯 T <u>o</u> ols 🕶
There is a problem with this website's security certificate.	
The security certificate presented by this website was not issued by a trusted certificate authority.	
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.	
We recommend that you close this webpage and do not continue to this website.	
Click here to close this webpage.	
Continue to this website (not recommended).	
More information	
https://jhars.nts.jhu.edu/jhars/default.cfm	🔍 100% 🔹 🚲

### **Step 12:**

Enter your JHED logon credentials and click **Login** to access the registration process.

Integration of the second se	C Johns Hopkins Enterprise Auth	nentication - v5.1.1-21v - Win	dows Internet Explorer
One Hopkins Enterprise Authentication - v5     To help protect your security, Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     To help protect your security, Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     TOHENS HOPKINS     Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options     Internet Explorer has blocked the block	😋 🔵 👻 🖻 https://portal.johnshopkins.edu/	cgi-bin/allinonelogin.pl?BASIC=FAL 🐱 😵 Certi	ificate Error 🦘 🗙 Live Search
To help protect your security, Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options <b>SOHENS HOPKINS</b> Image: Cocin Enterprise Login Info   Please enter your JHED ID and Password   First Time JHED Users Click Here   JHED ID:   JHED ID:   Forgot Password?   Forgot Password?   Login   We also have a Frequently Asked Questions section available for more information and help.	😪 🏘 🍘 Johns Hopkins Enterprise Authentica	ation - v5	🟠 🔹 🔝 🔹 🖶 🔹 🔂 <u>P</u> age 🕶 🎯 T <u>o</u> ols 🕶
<b>DOCUMENTATIONS ENTERPRISE ENTERPRISE</b> <	It is a security of the securi	has blocked this website from displaying conte	ant with security certificate errors. Click here for options
LOGIN         Please enter your JHED ID and Password         First Time JHED Users Click Here         JHED ID:       JHED_D         Password:       Image: Click Here         Forgot Password?       Single sign-on (SSO) is a mechanism whereby a single action of user authentication and authorization can permit a user to access all computers and systems where he has access permission, without the need to enter multiple passwords. Single sign-on reduces human error, a major component of systems failure and is therefore highly desirable but difficult to implement.         We also have a Frequently Asked Questions section available for more information and help.	JOHNS HOPKINS		ENTERPRISE AUTHENTICATION
LOGIN       ENTERPRISE LOGIN INFO       FORGOT PASSWORD?         Please enter your JHED ID and Password       First Time JHED Users Click Here       Welcome to the Johns Hopkins Enterprise Login.         JHED ID:       JHED_ID       Single sign-on (SSO) is a mechanism whereby a single action of user authentication and authorization can permit a user to access all computers and systems where he has access permission, without the need to enter multiple passwords. Single sign-on reduces human error, a major component of systems failure and is therefore highly desirable but difficult to implement.         We also have a Frequently Asked Questions       We also have a Frequently Asked Questions			The L Course Discourses
	Please enter your JHED ID and Password First Time JHED Users Click Here JHED ID: JHED_ID Password: •••••• Forgot Password? Login	Welcome to the <b>Johns Hopkins Enterprise</b> The purpose of Johns Hopkins Enterprise logi customers to access many applications with Single sign-on (SSO) is a mechanism wheret can permit a user to access all computers ar need to enter multiple passwords. Single sign failure and is therefore highly desirable but dif We also have a <u>Frequently Asked Question</u>	Login. in is to provide a single sign on functionality for our i just one log in. by a single action of user authentication and authorization nd systems where he has access permission, without the n-on reduces human error, a major component of systems fficult to implement. <u>ns</u> section available for more information and help.
Login Problems? Click here for Non-JavaScript Version. For Security Reasons, please close all Web Browsers when finished. Dohns Hopkins Enterprise Authentication - v5.1.1-21v Use of the Johns Hopkins Enterprise Directory (JHED) Computer System shall be solely for the business purposes of the Johns Hopkins Institutions. Unauthorized use may subject you to criminal prosecution. Use of this system is monitored. Evidence of unauthorized use collected during monitoring may be used for administrative, criminal or adverse action. Use of this system constitutes consent to monitoring for these purposes, and for any other purpose related to the business interests of the Johns Hopkins Institutions, or as needed to protect system resources.			

#### Step 13:

Click on **DYNAMIC IP** to register.



#### Step 14:

Click **Confirm** to conclude and submit the request.



#### Step 15:

Reboot to complete the registration process.

G JHARS: The Johns Hopkins Address Registration System - Windows Internet Explorer	
🚱 💽 👻 https://jhars.nts.jhu.edu/JHARS/publicSignupDHCPAction.cfm 🔽 😵 Certificate Error 🛛 🚱 🗙 Live Search:	<b>P</b> •
😪 🏟 🏈 JHARS: The Johns Hopkins Address Registrat 👘 🔹 🔂 🔹 🖶 🖻 📴	je ▼ () T <u>o</u> ols ▼ <sup>≫</sup>
JOHNS HOPKINS	<
JHARS: The Johns Hopkins Address Registration System         Register For A Dynamic IP Address         Submission complete.         You must now reboot the system to complete the registration process. After reboot, you will have access to the Hopkins Support Center at: 410-516-HELP.	
You are now in Administrative Mode.	_
Done	<b>100%</b> •

# Where do I get additional help?

#### **Technical Assistance (walk-up)**

Garland Hall Basement Monday - Friday 8:00 AM - 4:30 PM

#### **Contact the Support Center at:**

(410)955-HELP (410)955-4357	Johns Hopkins East Baltimore
(410)516-HELP (410)516-4357	Johns Hopkins Homewood Campus
(443)997-HELP (443)997-4357	Johns Hopkins Mount Washington Campus