# Instructions for Using Wi-Fi Service

# Windows, Mac OS

This document instructs you how to connect to the campus network (Sophia University network). When you connect to the network, specific settings are required. The settings can be different from ordinary home network settings.

April 2024

ICT Office

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OICT Office changed Wi-Fi settings at April, 2019.

OOnce Wi-Fi setting is completed, you can connect to Sophiawifi at any Wi-Fi spot in this university.

Setting for new Wi-Fi is a little complicated from previous one. <u>However, once the setting is completed, you can connect to the</u> <u>internet without regular authorization procedure.</u> \*

\*The authorization will be expired automatically when you graduate/retire/leave this university.

Caution:

Make sure to follow this instructions or <u>connection will be failed</u> <u>afterward</u>. Especially if you use Windows OS, the setting will be completed unintentionally.

When you failed the setting, surely remove the previous setting, and try it again.

## 1. Specifications

### (1) <u>Wi-Fi Coverage</u>

XYou can get latest information from Sophia University ICT-Office website. https://ccweb.cc.sophia.ac.jp/en/userguide/network/nw-05-en/

- (2) <u>Available Time</u> The Wi-Fi is available all day except during irregular maintenance.
- (3) <u>Eligibility</u> Teachers/Faculty Staffs/Students who have Sophia University ICT account.
- (4) <u>Supported OS</u> Windows 11,10, 8.1, 7, Mac OS, Android, iOS etc. Available Services Web Browsing, E-mail, SSH, SFTP

#### (5) <u>Notice</u>

- 1 You have to setup PC for connecting the network for yourself.
- (2) Beware of computer virus. When you connect to the network, surely install anti-virus software, and download latest databases. Also, update OS.
- To reduce campus network load, please avoid, as far as possible, using Zoom or watching videos while on campus.

We ask for your cooperation to use network at home or other off campus network unless in compelling situations when you have to take specially approved classes by Zoom while on campus due to class timetable, or when you have to connect to off-campus activities such as job search and interviews while on campus.

• On personal computers or mobile phones, please turn off Wi-Fi setting (sophiawifi2019, eduroam) whenever you are not using it.

### 2. How to connect to Sophiawifi2019

IEEE802.11a/b/g/n/ac is available. The connection protocol is DHCP.

## 2.1. Instructions for Windows (set up Sophiawifi2019)

### Caution:

Make sure to follow this instructions or <u>connection will be failed afterward</u>. Especially if you use Windows OS, the setting will be completed unintentionally.

When you failed the setting, surely remove the setting, and try it again.

(1) Open "Network and Sharing Center"

#### ■Windows10

[Settings] > Network & Internet] > [Network and Sharing Center]



#### ■Windows11

1.Open the Control Panel

\*Below is an example of how to open the control panel.

```
Method1: Type "control panel" in the search bar
```

Control Panel		
Apps		Control Panel
🍪 Windows Tools	>	мир
🗐 Run	>	🖸 Open
Search the web		· · ·
O control - See web results	>	Recent
𝒫 control panel open	>	Network and Sharing Center
𝒫 controller	>	ネットワークのコンピューターとデバイスの表示
	>	ネットワークに接続 ネットワークの状態とタスクの表示
𝒫 control printers	>	Device Manager
	>	Windows 資格情報の管理
Settings (6+)		Windows loois Credential Manager
Photos (1+)		Power Options
		Devices and Printers
		プログラムのアンインストール



2. [Network and Internet] > [Network and Sharing Center]



(2) Click "Set up a new connection or network".



(3) Select "Manually connect to a wireless network".



(4) Apply following settings and click "Next".

			-		$\times$
÷	👰 Manually connect to a wi	eless network			
	Enter information for t	he wireless network you want to add			
	Network name:	sophiawifi2019			
	Security type:	WPA2-Enterprise $\checkmark$			
	Encryption type:	AES ~			
	Security Key:	Hide charact	ers		
	☐ Start this connection a	utomatically			
	Connect even if the ne	twork is not broadcasting			
	Warning: If you select	this option, your computer's privacy might be at risk.			
			Next	Can	icel
Net	work name:	sophiawiti2019			

Security type: WPA2-Enterprise Disable "Start this connection automatically". Disable "Connect even if the network is not broadcasting".

#### (5) Click "Change connection settings".



\*To connect to the campus Wi-Fi correctly, you must change the connection settings.

(6) Select "Connection" tab and disable "Connect automatically when this network is in range".



(7) Select "Security" tab and click "Settings".

sophiawifi2019 Wire	eless Network Properties	sophiawifi2019 Wirele	ess Network Properties	
Connection Securit	ty	Security type:	WDA2 Enterprise	~
Name:	sophiawifi2019	Security type:	wraz-enterprise	~
SSID:	sophiawifi2019	Encryption type:	AES	~
Network type:	Access point			
Network availabilit	y: All users			
		Choose a network a	uthentication method:	$\frown$
		Microsoft: Protecte	d EAP (PEAP) 🛛 🗸	Settings
		Remember my cr time I'm logged o	edentials for this connection on	i each

(8) Disable "Verify the server's identity by validating the certificate" and click "Configure" on the bottom of the dialog.

Protected EAP Properties	×
When connecting:	
Verify the server's identity by validating the certificate	
Connect to these servers (examples:srv1;srv2;.*¥.srv3	é.com):
Trusted Root Certification Authorities:	
AddTrust External CA Root	^
Baltimore CyberTrust Root	
Certum CA	
Class 3 Public Primary Certification Authority	
CLNET-CLADOMP-CA	
COMODO RSA Certification Authority	~
<	>
Notifications before connecting:	
Tell user if the server name or root certificate isn't specified	$\sim$
Select Authentication Method:	
Secured password (EAP-MSCHAP v2)	nfigure

(9) Disable "Automatically use my Windows logon name and password (and domain if any)" and click "OK".

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

(10) Click "OK" and "Advanced settings".

Protected EAP Properties	×		
When connecting:			
Verify the server's identity by validating the certificate		sophiawifi2019 Wireless Network Properties	>
Connect to these servers (examples:srv1;srv2;.*¥.srv3¥.co	om):	Connection Security	
Trusted Root Certification Authorities:           AddTrust External CA Root           Baltimore CyberTrust Root           Certum CA	^	Security type: WPA2-Enterprise   Encryption type: AES	
Certum Trusted Network CA Class 3 Public Primary Certification Authority CLNET-CLADOMP-CA COMODO RSA Certification Authority  Notifications before connecting:	· •	Choose a network authentication method: Microsoft: Protected EAP (PEAP) $\checkmark$ Settings Remember my credentials for this connection each time I'm logged on	
Tell user if the server name or root certificate isn't specified	$\sim$		
Select Authentication Method: Secured password (EAP-MSCHAP v2)  Config	ure		
Enable Fast Reconnect Disconnect if server does not present cryptobinding TLV Enable Identity Privacy		Advanced settings	
ОКСаг	ncel	OK Can	icel

(11) Enable "Specify authentication mode" and select "User authentication" then click "Save credentials".

Advanced settings					
802.1X settings 802.11 settings					
Specify authentication mode:					
User aut	thentication				
Delete	e credentials for all users				

(12) Input Sophia ICT-Account (faculty/student ID and password) and click "OK".

	Windows Security	$\times$
	Save credentials	
	Saving your credentials allows your computer to connect to the network when you're not logged on (for example, to download updates).	
	•••••	
(	OK Cancel	

(13) Click "OK" or "Close" and close setting dialogs.

As shown in the picture, the mouse will be loading mark, but move the cursor to the "OK" and click on it.

Advanced settings X	sophiawifi2019 Wireless Network Properties	
802.1X settings 802.11 settings	Connection Security	
Specify authentication mode:		
User authentication $\checkmark$ Save credentials	Security type: WPA2-Enterprise ~	
Delete credentials for all users	Encryption type: AES ~	×
		<ul> <li>Manually connect to a wireless network</li> </ul>
Enable single sign on for this network	Choose a network authentication method: Microsoft: Protected CAP (PEAP) Remember my credentials for this connection each time I'm logged on	Successfully added sophiawifi2019  → Change connection settings Open the connection properties so that I can change the settings.
СК алсе	Advanced settings OK Incel	Close

(14) Click Wi-Fi icon on the bottom-left of the window. Windows10 Windows11



(15) Select "sophiawifi2019" and click "connect".



(16) Wi-Fi connection will be established if you have completed the settings properly.



### 2.2. Instructions for Mac OS

(1) Select "System Preferences" from apple menu and click "Network".



(2) If preference settings are locked, click lock icon on the bottom-left of the window. Then, input administrator name and password. The settings will be unlocked when you click "Unlock". Next, click "Advanced".



(3) Select "sophiawifi" from "Preferred Networks" and click "-".If there is not "sophiawifi", skip this procedure.



### (4) Click "+".



(5) Input following information and click "OK".

Network Name:	sophiawifi2019
Security:	WPA2 Enterprise
Username:	Faculty/Student ID number
Password:	same as login password for Moodle or Sophiamail.

Add a Wi- Enter the nat to add.	Fi network profile. me and security type of the profile you want
Network Name:	sophiawifi2019
Security:	WPA2 Enterprise
Username:	MARK 11
Password:	•••••
	Show password
? Show Networks	Cancel OK

(6) Confirm "sophiawifi2019" is added on "Preferred Networks" and click "OK".

Wi-Fi TCP/IP DNS	WINS 802.1X Proxies	Hardware
Dreferred Networks		
Network Name	Security	Auto-Join
conhinuifi2010	WPA2 Enterprise	
Drag networks into the	order vou prefer.	
Drag networks into the     Remember networks this c	order you prefer.	
prag networks into the     G Remember networks this c     Show legacy networks and	order you prefer. omputer has joined options	
Drag networks into the     Greenember networks this c     Show legacy networks and     Require administrator authoriz	order you prefer. omputer has joined options	
Drag networks into the     Require administrator authors     Change networks	order you prefer. omputer has joined options ation to:	

(7) If dialog as below appear when you connect to sophiawifi2019 for the first time, confirm server name is "\*.cc.sophia.ac.jp" and click "Continue".



## 2.3. Mac OS (Ventura or later) settings

(1) After clicking on the Wi-Fi icon, click on "sophiawifi2019".



(2) Fill in each field as follows and click "OK".
 Account Name : Student ID / Faculty ID
 Password : Password used for Moodle and Sophia Mail

	4	2	
Enter a	name and p "sophia	bassword for n wifi2019"	etwork
Account Name	:		
Password	0		
Remember	this informat	on	
	-	OV	

When connecting to sophiawifi2019 for the first time, the following message may appear.
 Confirm that the server name is "\*.cc.sophia.ac.jp" and click "Continue".

icating to network uthenticating to serve or's certificate to ensu he certificate, click 'S	"sophiawifi201 "sophiawifi2019 re that it is appro how Certificate!	9" .cc.sophia.ac.jp", priate for this net	ou should examine work.
he certificate, click 'S	how Certificate'.		
Certificate		Car	ncel Continue
(	Certificate	Certificate	Certificate

## 3. Changed password or have trouble connecting

If the connection does not work, or if have changed the password for Moodle or other Sophia ICT account, it is necessary to delete the settings of the sophiawifi2019 and set them up again.



(1) Open Wi-Fi settings in the following order.



(2) Remove "sophiawifi2019" from "Manage known networks".



(3) Restart PC and set up the sophiawifi2019 again.



## 3.2. For Mac

- (1) Remove ID and password information from keychain access.
- 1 Follow the steps below to select keychain access.



(2) Type "sophiawifi" in the search bar and click "sophiawifi2019" with two fingers. (If it does not appear, proceed to (2).

Keychain Access		i Q sophi	iawifi	0
All Items Passwords Secure M	Notes My Certificates Keys Ce	rtificates		
sophiawifi2019 Kind: 802.1X Pass Account: AB12345 Where: com.apple. Modified: Yesterda	word 16 .network.eap.user.item.wlan.ssid.sop1 ay, 13:59	hiawifi2019		
Name	∧ Kind	Date	Expires	Keychain
sophiawifi2019	802.1X Password	rerday, 13:59		login
sophiawifi2019.cc.sophia.a	ic.jp certificate	217	Sep 9, 2023 21:27:55	login

Select "Delete sophiawifi2019" and click "Delete" when it pops up.
 Confirm that "sophiawifi2019" has been deleted and close the keychain access.



- (2) Delete sophiawifi2019 settings.
- ① Click on the Wi-Fi icon > Click on "Wi-Fi Settings".



2

Click " $\cdots$ " next to "sophiawifi2019" and select "Forget This Network  $\cdots$  "

Wi-Fi	
🛜 Wi-Fi	
sophiawifi2019 Connected	🔒 🗢 Details
Known Network	
✓ sophiawifi2019	
Other Networks	Network Settings
daimajin_optout	Forget This Network

③ Click "Remove" when the following pop-up appears.



(4) Please reboot and set up the sophiawifi2019 again.

ú	Finder	File	Edit	View	Go	Wir
Abo	ut This Ma	ас				
Syst	tem Settin	gs				
App	Store			5 up	dates	
Rec	ent Items				>	
Ford	ce Quit Fin	der		x	0 # O	
Slee	ер					
Rest	tart					
Shu	t Down					
Loc	k Screen				^ # Q	
Log	Out Sophi	ia ICT C	Office		<del>ዕ</del> <mark>ដ</mark> Q	

## 4. Services

- (1) Web Browsing
  - 1 You can connect to the Internet through web-browser after Wi-Fi connection is established.
- (2) E-mail
  - You can use Sophiamail such as "@sophia.ac.jp" or "@eagle.sophia.ac.jp" via OWA (Outlook Web App). Open Sophia University ICT-Office website [http://ccweb.cc.sophia.ac.jp] and click "Office 365 Login" button for faculty or student. Then, input your username and password. The email traffic will be encrypted by SSL.
  - (2) You can use third-party mailing service by using email client. Only encryption protocols such as "Exchange", "POPS" or "IMAPS" are available in that case.
- (3) On-demand Printer
  - ① You can use on-demand printer via sophiawifi2019. Refer Instructions for the printer and apply additional settings for it.
- (4) Restrictions
  - 1 External network traffic will be blocked except for web-browsing, email, NTP and DNS.
  - 2 Internal network traffic will be disabled except for the services permitted from ICT-Office.

### IMPORTANT:

Specific network protocols such as SSH are disabled on sophiawifi2019. Therefore, when you want to access to servers in researching room, connect to eduroam and use Tunneling protocols via VPN connection.

### CAUTION

Beware of security problems and use Wi-Fi services at your own risk.

### Instructions for Using Wi-Fi Service Windows, Mac OS

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Author	Sophia University ICT-Office
Address	102-8554
	Kioicho 7-1, Chiyoda-ku, Tokyo-to, Japan.
Phone	03(3238)3101
Website	http://ccweb.cc.sophia.ac.jp/

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