(2015.8.17.)

eduroam

2015년 8월 17일부터 정보화본부는 글로벌무선로밍서비스(Education Roaming, 이하 "eduroam")를 개시합니다. eduroam은 해외 69개국 1,100여개의 교육기관(대학 및 연구소)이 참여하고 있는 서비스로 기관을 방문시 소속기관에서 사용하던 ID로 방문기관의 무선랜 서비스를 이용할 수 있는 서비스입니다.

eduroam서비스 이용시 본교의 보안정책을 준수해야 합니다.

- PC보안정책 : PC통합보안 S/W설치후 PC 취약점 점검
- 인터넷 관문 정책 : 일과(08시~19시)중 IP별 대역폭 제한(15Mbps) 및 일부 포트 사용 제한
- ※ 자세한 내용은 <u>http://eduroam.snu.ac.kr</u> 참고하시기 바랍니다.

※ 타기관 계정 이용자는 해당기관에서 사용하던 방식대로 이용하시면 됩니다.

- Table of Contents -

I.	Auto Setup	3
II.	Manually Setup	
	1. Laptop(Windows7)	5
	2. Laptop(Windows8) ·····	10
	3. Android Device(Android OS)	14
	4. MacBook(iOS) ······	15
	5. iPhone/iPad(iOS) ·····	16

SNU Office of Information Systems and Technology launched eduroam(education roaming) on August 17th, 2015.

Eduroam (Education Roaming) is the secure worldwide federated network access service developed for the international research and education community (69 countries / around 1,100 education institutions). It provides network access without the need to gain guest credentials on arrival to an eduroam location.

○ Method

How SNU member use eduroam

Select "eduroam" from SSID list and enter your credentials in the following format:

Username / Password : SNU_ID@snu.ac.kr / Password

Partly service can be limited according to the wireless management policies of each education institution.

* Due to the characteristic of SNU authentication security, users need to additionally configure settings. (filling in eduroam profile)

How visitors login to eduroam at SNU

Persons from participating eduroam institutions may establish a wireless connection at SNU using their own university's eduroam credentials after selecting eduroam from SSID list.

○ Security Policies

Users have to observe security policies of SNU during using edurom at SNU.

- PC Securities : Internet connection is only available for users who installed PC Integrated Security S/W after accessing Wireless network. (Users are recommended to inspect PC vulnerability.)
- Internet Policies: Internet bandwidth per IP address is limited (15Mbps) and some of ports are blocked from 8:00 ~ 19:00.

* <u>http://eduroam.snu.ac.kr</u>

%Inquiry : IT Emergency Call 880-8282(Korean), 880-2121(English)

I-1. Auto Setup - Windows 7 or 8

1. Click an wireless network icon on the taskbar.

The list is split by the type of available network connections. Click 'SNU-1st-time'.

2. Open any web browser and click 'SNU MEMBER'. (교직원/학생WiFi)





3. Guidance for laptop setting is below. Click "Auto Setup".



. Click SNU-eduroam (⇒) → Click Next			Q QuickConnect by Aruba Networks, Inc.				
\rightarrow Click N	ext.		慶	[Click Next]-[Select Profile] - [Start			
		Welcon	ne	configuration] - [Reboot] - [SNU_ID and PW are required].			
		Configure					
		Connee	ct	Select a Network			
		Summa	ary	Please choose an appropriate network:			
	QuickConnect by Aruba Networks, Inc.	×		○SNU-Member			
[Click Next]-[Select Profile] - [S		tart		SNU-Member			
Welcome	configuration] - [Reboot] - [SNU_ID and PW are required].			eduroam			
Configure				Next			
Connect	Configuring Your System						
Summary	Your system has been successfully config for secure network access using	gured					
	 Aruba EAP-GTC Plugin 		(⇐) 5	. Click "Restart Now".			
	The changes require your system to be restarted.			Restart Windows.			
Licensed to: SNU	Restart Later Rest	art Now					

 Click 'If additional information is needed to connect 'eduroam'. eduroam에 연결하려면 추가 정보가 필요합니다. * * 추가 정보를 제공하려면 클릭하십시오.

- (or Click an wireless network icon on the taskbar. Click 'eduroam'.
- 7. Enter -User name : SNU_ID@snu.ac.kr -Password : password (Don't enter Logon domain.)

Click 'OK'.

User name:	SNU_ID@snu.ac.kr
Password:	•••••
Logon domain:	í



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8. The configuration is complete.

II-1. Windows 7 (Manually Set up)

1-1. Click an wireless network icon on the taskbar.

The list is split by the type of available network connections. Click 'SNU-1st-time'.



Currently connected to: SNU-1st-time No Internet acce	*1
무선 네트워크 연결 2	^
SNU-1st-time	Connected
SNU-Member	liter.
T wifi zone	201
T wifi zone_secure	Me.
ollehWiFi	ite.
SNU_U+Zone	ine.
U+zone	100
T wifi IPv6 Trial Zone	311
Open Network and	d Sharing Center

- 1-2. Open any web browser and click 'SNU MEMBER'. (교직원/학생WiFi)
- 1-3. Guidance for laptop setting is below. Click "32bit" or "64bit".(* 32bit : EAP-GTC-x86.msi, 64bit : EAP-GTC-x64.msi)



1-4. Click "Next".



1-5. After completion, restart windows.

1-6. Control Panel \rightarrow Network and sharing center \rightarrow Set up a new connection or network



1-9. Enter

- Network name : eduroam
- Security type : WPA2-Enterprise
- Encryption type : AES

check()	'Connect even if the
network is	not broadcasting'

Enter information	i for the wireless network you want to add	
Network name:	eduroam	
Security type:	WPA2-Enterprise	
Encryption type:	AES	
Security Key:	Hide characters	
📝 Start this conne	ction automatically	
Connect even if	the network is not broadcasting	
Warning: If you	select this option, your computer's privacy might be at risk.	

1-10. click

'Change connection settings'

) 📲 Man	ually connect to a wireless network	
Succes	ssfully added SNU-Member	
•	Change connection settings Open the connection properties so that I can change the settings.	
		Close

1-11. Click 'Security'.

Choose a network authentication method : select 'Microsoft:Protected EAP'

click 'Settings'

•
•

1-12. Don't check 'Validate server certificate'.

Select 'EAP-Token'

 $Check(\sqrt{)}$ 'Enable Fast Reconnect'

Click OK.

Connection Security		
Security type:	WPA2-Enterprise	-]
Encryption type:	AES)
Microsoft: Protecte	d EAP (PEAP) ▼ Settings	
Microsoft: Protecte	d EAP (PEAP) Settings edentials for this connection each on	
Microsoft: Protecte	d EAP (PEAP) Settings redentials for this connection each on	
Microsoft: Protecte Remember my cr time I'm logged c	d EAP (PEAP) Settings redentials for this connection each on	
Microsoft: Protecte Remember my cr time I'm logged c	d EAP (PEAP) Settings edentials for this connection each on	
Microsoft: Protecte	d EAP (PEAP) Settings redentials for this connection each on	
Microsoft: Protecte Remember my cr time I'm logged c	d EAP (PEAP) Settings redentials for this connection each on	

1-14. Check($\sqrt{}$) 'Specify authentication mode'. Select 'User authentication'. Click 'OK'.

Connect	erver certificate to these servers:	}	
rusted Roo	ot Certification Aut	horities:	
Baltimor	e CyberTrust Roo	t	
Class 3	Public Primary Cer	tification Authority	1
📃 Equifax	Secure Certificate	Authority	
GeoTru	st Global CA		
Go Dad	dy Class 2 Certifica	ation Authority	
Microso	ft Root Authority		
Microso	ft Root Certificate	Authority	
		111	
Do not p	rompt user to auth	norize new servers or	trusted
Do not p certificat ect Authent	rompt user to auth ion authorities, ication Method;	norize new servers or	trusted

1-13. Click 'Advanced settings'.

The second second second	Programme da c	-	
Specify authentica	tion mode:	21	
User authentication	on	Save or	edentials
Delete credent	ials for all users		
Enable single sign (on for this netwo	rk	
Perform immed	iately before use	r logon	
Perform immed	iately after user	logon	
Maximum delay (se	econds):	10	*
Allow additiona sign on	l dialogs to be di	splayed during	single
This network us and user authe	ses separate virt entication	ual LANs for ma	achine

1-15. After completion, restart windows.

1-16. Click 'If additional information is needed to connect 'eduroam'.





(or Click an wireless network icon on the taskbar. Click 'eduroam' .

1-17. Enter

-User name : SNU_ID@snu.ac.kr -Password : password

(Don't enter Logon domain.) Click 'OK'.



1-18. The configuration is complete.

II-2. Windows 8 Manually Set up

- 2-1. The list is split by the type of available network connections. Click 'SNU-1st-time'.
- 2-2. Open any web browser





2-3. Guidance for laptop setting is below. Click 32bit or 64bit.

(* 32bit : EAP-GTC-x86.msi,	64bit : EAP-GTC-x64.msi)
-----------------------------	--------------------------

* QuickConnect wizard will guide you to configure security setup. After configuration it will be required rebe	oot, enter
You don't need to access SNU-1st-time again if you are completed 'SNU-Member' configuration via this page, so web-page and select 'SNU-Member' from SSID on your device.	o exit this
제뉴엄 Manually Setup Eri Manual · 32bit	\bigcirc
Click "실행(Run)" → "실행(Run)" → "실행(Run)"	
Do you want to run or save EAP-GTC-x86.msi (2.48 MB) from snu-wifi.snu.ac.kr? Run Save 💌	Cancel
지금은 Windows SmartScreen에 연결할 수 없음 인터넷 연결을 확인하십시오. Windows SmartScreen에 연결할 수 없으면 이 앱을 안전하게 실 수 있는지 확인할 수 없습니다.	^민 행할
게시자: 알 수 없는 게시자 앱: SeoulNationaUniversityQuickConnect.exe 실행 실행	안함
😵 The publisher of EAP-GTC-x86.msi couldn't be verified. Are you sure you want to run the program? Run Vie	ew downloads

2-4. Click "Next".



2-5. After completion, restart windows.

2-6. Control Panel \rightarrow Network and sharing center \rightarrow Set up a new connection or network



2-9. click

'Change connection settings'



2-10. Click 'Security'.

Choose a network authentication method : select 'Microsoft:Protected EAP'

click 'Settings'

en connectir	ng:	
alidate se	erver certificate	
Connect	to these servers:	
1.		
rusted Roo	t Certification Authorities:	
Baltimore	e CyberTrust Root	
Class 3 F	Public Primary Certification Auth	nority
Equifax :	Secure Certificate Authority	11
GeoTrus	t Global CA	
Go Dadd	y Class 2 Certification Authorit	y Land
Microsof	t Root Authority	
Microsof	t Root Certificate Authority	7
Do not pr	t Root Certificate Authority	• • • • • •
Microsof	t Root Certificate Authority 	vers or trusted
Microsof	t Root Certificate Authority "" ompt user to authorize new ser on authorities. Cation Method: Baccopport	vers or trusted
Microsof Do not pr certification ect Authenti P-Token hable Fast	t Root Certificate Authority III ompt user to authorize new ser on authorities. Cation Method: Reconnect work Access Protection	vers or trusted
Microsof Do not pr certification cct Authention P-Token nable Fast Enforce Net	t Root Certificate Authority III ompt user to authorize new ser on authorities. cation Method: Reconnect work Access Protection f server does not present crypt	vers or trusted
Microsof Do not pr certificati ct Authenti P-Token hable Fast Disconnect i Enable Iden	t Root Certificate Authority 	vers or trusted Configure.

onnection Security		
Security type;	WPA2-Enterprise	
Encryption type:	AES 👻	
Remember my a time I'm logged a	redentials for this connection each	
Remember my a time I'm logged o	redentials for this connection each	
Remember my a time I'm logged a	redentials for this connection each on	
Remember my a time I'm logged a Advanced setting	redentials for this connection each	
Remember my a time I'm logged o Advanced setting	gs	

2-11. Don't check 'Validate server certificate'.

Select 'EAP-Token'

 $\mathrm{Check}(\sqrt{)}$ 'Enable Fast Reconnect'

Click OK.

- 2-12. Click 'Advanced settings'. \Rightarrow
- 2-13. $Check(\sqrt{)}$ 'Specify authentication mode'.
- (\Downarrow) Select 'User authentication'.





Security type:	WPA2-Enterprise		
Encryption type:	AES	•	-
Mineres Ar Destante		-	i.
Microsoft: Protecte	d EAP (PEAP) edentials for this co	✓ Settings nnection each	
Microsoft: Protecte Remember my ci time I'm logged c	defendeation metho d EAP (PEAP) redentials for this col on	 Settings nnection each 	
Microsoft: Protecte	d EAP (PEAP) redentials for this col	▼ Settings	
Microsoft: Protecte	d EAP (PEAP) edentials for this color	 ✓ Settings nnection each 	
Microsoft: Protecte Remember my cr time I'm logged c	d EAP (PEAP) redentials for this cor on	v. ▼ Settings nnection each	
Microsoft: Protecte Remember my cr time I'm logged c	d EAP (PEAP) redentials for this cor on	 ▼ Settings nnection each	

2-14. After completion, restart windows.

2-15. Click 'If additional information is needed to connect 'eduroam'.





(or Click an wireless network icon on the taskbar. \Rightarrow Click 'SNU-Member' .)

2-16. Enter

-User name : SNU_ID@snu.ac.kr

-Password : password

(Don't enter Logon domain.) Click 'OK'.

2-17. The configuration is complete.



II-3. Android Device (Android OS)

- 3-1.Settings \rightarrow Turn on WiFi
 - $\rightarrow~$ Select "eduroam" from SSID.
- . Configuration
 - EAP method : PEAP
 - Phase 2 authentication : GTC
 - Identity : SNU_ID@snu.ac.kr
 - Password : mySNU password

Click 'Connect'.

SNU-WiFi	
EAP 방식 PEAP	4
2단계 인증 GTC	
CA 인증서 (설정 안 함)	4
사용자 인증서 (설정 안 함)	4
ID SNU_ID@snu.ac.kr	
익명 ID	
바밀번호 	
□ 비밀번호 표시	
취소	연결

The configuration is complete.

Open any web browser and access the Internet.

II-4. MacBook (MacOS)

- 1. Click the WiFi icon in the upper-right corner and click 'Wi-Fi: On'.
- 2. Click 'eduroam' from SSID.

*	🛜 🖣 🖅 📟 Mon 2:46 PM	Donghe \
	Wi-Fi: On	n.
	Turn Wi-Fi Off	
	✓ SNU_U+Zone	≙ 奈
	FREE_U+zone	()
	ollehWiFi	
	ollehWiFi	(
	Public WiFi Free	()
	SNU-1st-time	((1:
	eduroam	A 🛜
	T wifi IPv6 Trial Zone	(1:
	T wifi zone	(
	T wifi zone_secure	
	U+ Zone	6 🛜
	U+zone	ê 🔶
	Join Other Network	18
	Create Network	Ċ.
	Open Network Preferences	

The configuration is complete.

 Open any web browser(Safari, Chrome, Internet explorer, Firefox).



The Wi-Fi network "eduroam" requires WPA2 enterprise credentials.





II-5. iPhone/iPad (iOS)

1. Settings → Turn on WiFi → select " <mark>eduroam</mark> "	iPad ≎ Setti	ngs	10:39 AM	Wi-Fi	70% 🔲
from SSID	P Airplane Moo	le	Wi-Fi		\bigcirc
	🗢 Wi-Fi	eduroam	🗸 eduroam	₽ 🤤	· (i)
	Bluetooth	Off	CHOOSE A NETWORK	ς	
	Notification 0	Center	FREE_U+zone	ę	• (i)
	Control Cent	er	ollehWiFi	ê Ş	· (j)
	C Do Not Distu	rb	ollehWiFi SNU U+Zone	ې ۲	· (i)
2 Enter username &	Dassword				
- Username : S	SNU ID@snu.	ac.kr	•••00	중 오후 2:22 0	D 97% - D
- Password : myS	NU Password		Er	nter the password for "eduroar	n"
-			Cancel	Enter Password	Join
Click "Join".					
			Userna	ame SNU_ID@snu.ac.kr	
			Passw	ord •••••••	
		●●●○○ olleh IT	F Q호1:56 66%	6 •••	
		K Back	Certificate		
				-	
			localhost	I T Y U I	ΟΡ
Click 'Accept'.			Not Verified Acce		
		Description	Code Signing	FGHJ	KL
The configuration is	s complete.	Mara Date	s 2015. 6. 10. 오전 10:25:56	CVBN	<u>M</u> 🗵
Open any web brow	ser.	More Deta	ans	space	return