

# Korisničko uputstvo za instalaciju i podešavanje securew2 programa za pristup eduroam servisu



Termin *supplicant* se koristi u IEEE 802.1X standardu. U širem značenju, ovaj termin predstavlja entitet (korisnik ili uređaj) koji zahteva da bude autentifikovan u datom sistemu. U praksi, *supplicant* je program koji je instaliran na korisnikovom računaru. Korisniku je potreban *supplicant* program kako bi na siguran način pristupio datim mrežnim resursima i uz pomoć neophodnih podataka (npr. korisničkog imena i lozinke) izvršio proces autentifikacije. *Supplicant* program je u većini slučajeva neophodan, jer standardne distribucije operativnih sistema nemaju podršku za korišćenje protokola koji omogućavaju visok stepen zaštite pri komunikaciji.

Supplicant programi koji su danas najviše u upotrebi su: SecureW2 (napravljen od strane SecuereW2 organizacije), Aegis (Cisco), Odyssey (Juniper Networks), wpa\_supplicant i Xsupplicant.

## SecureW2

U ovom dokument biće opisan rad sa SecureW2 programom koji trenutno pruža podršku samo za Windows platformu (Windows XP Service Pack 2 (minimum), Windows Vista, Windows 7 i Windows Mobile).

SecureW2 EapSuite je open-source projekat koji dodaje EAP (*Extensible Authentication Protocol*) metode na Windows platformu. Sigurnost korišćenja EAP metoda sastoji se u stvaranju TLS (*Transport Layer Security*) tunela između korisnika i servera koji vrši autentifikaciju. Dati tunel se stvara pre slanja korisnikovih identifikacionih podataka (korisničko ime i lozinka),čime se postiže zaštita poslatih identifikacionih podataka. Takođe je moguće i verifikovati autentifikacioni server na osnovu datih sertifikata. Trenutno, EAP Suite podržava sledeće protokole: EAP-TTLS, EAP-GTC, EAP-PEAP (verzije 0 i 1) i EAP-SIM.

Za AMRES korisnike, obezbeđena je verzija Securew2 programa sa određenim predefinisanim parametrima specifičnim za AMRES eduroam servis. Ova verzija programa se može preuzeti na adresi <u>www.eduroam.ac.rs/downloads/SecureW2\_AMRES.exe</u>.

### Instalacija SecureW2 na računare sa Windows XP operativnim sistemom

Preuzmite i pokrenite fajl za instalaciju **SecureW2\_AMRES.exe** (sa adrese <u>www.eduroam.ac.rs/downloads/SecureW2\_AMRES.exe</u>) . Na prikazanom prozoru kliknuti **OK**.

먥 SecureW2 installer 1.0.0 Setup: Installing 📃	
Execute: SecureW2_EAP_Suite_114.exe	
Show de Please select a language.	
English V OK Cancel	
Cancel Nullsoft Install System v2,46 Ci	ose



#### Pa **Next**.



### Zatim I Agree.

SecureW2 EAP Suite 1.1.4 for Windows Setup	
License Agreement	
Please review the license terms before installing SecureW2 EAP Suite 1.1.4 for Windows.	Ľ
Press Page Down to see the rest of the agreement.	
SecureW2 Eap Suite, Copyright (C) SecureW2	^
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.	E
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.	~
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install SecureW2 EAP Suite 1.1.4 for Windows.	
Nullsoft Install System v2.38.1-Unicode	el



Na ovom prozoru samo kliknuti Install.

SecureW2 EAP Suite 1.1.	4 for Windows Setup	
Choose Components Choose which features of SecureW2 EAP Suite 1.1.4 for Windows you want to install.		
Check the components you war install. Click Install to start the ii	nt to install and uncheck the comp nstallation.	ponents you don't want to
Select components to install:	TTLS 4.1.0 GTC 1.1.0 PEAP 1.0.0	Description Position your mouse over a component to see its description.
Space required: 3.6MB		
Nullsoft Install System v2,38,1-Uni	code	Install Cancel

Prilikom instalacije otvoriće se prozor u koji je potrebno uneti korisničko ime i lozinku. Korisničko ime je u formi korisničko\_ime@domen (na primer: <u>pera@bg.ac.rs</u>). Zatim kliknuti **OK**.

Installi Please	SecureW2 Configuration	
Execut		SecureW2
	Unesite Vase korisnicko ime:	
	Profile:	DEFAULT
	Username:	korisnicko_ime@domen
	Password:	*****
	Re-enter Password:	****
	Domain:	
Nullsoft In		OK Cancel



I na kraju *Finish*, pri tome voditi računa da je izabrana opcija *Reboot now*. Računar se mora restartovati da bi se instalacija završila.



Kada se računar restartuje, za podešavanje wireless pristupa eduroam servisu, potrebno je uraditi sledeće: kliknuti *Start -> Control Panel -> Network Connections*. Zatim u tom prozoru desnim klikom obeležiti *Wireless Network Connection* ikonu i odabrati opciju *Properties*.





Prozor koji će se otvoriti je *Wireless Network Connection Properties*. U klizećem delu prozora pronaći opciju *Internet Protocol (TCP/IP)*, obeležiti je i kliknuti *Properties*.

🕹 Wireless Network Connection Properties 🛛 🔹 🔀
General Wireless Networks Advanced
Connect using:
Intel(R) PRO/Wireless LAN 2100 38
This connection uses the following items:
AEGIS Protocol (IEEE 802.1x) v3.2.0.3
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
<ul> <li>Show icon in notification area when connected</li> <li>Notify me when this connection has limited or no connectivity</li> </ul>
OK Cancel

Zatim, ako već nisu obeležene, obeležiti opcije **Obtain an IP address automaticaly** i **Obtain DNS** server address automaticaly. Na kraju kliknuti **OK**.

General Alternate Configuration	n
You can get IP settings assign this capability. Otherwise, you r the appropriate IP settings.	ed automatically if your network supports need to ask your network administrator fr
Obtain an IP address auto	omatically
Use the following IP addr	ess:
IP address:	
Subnet mask:	10 St 10
Default gateway:	
Obtain DNS server addre	ss automatically
OUse the following DNS se	erver addresses:
Preferred DNS server:	and the second
Alternate DNS server:	
-	



U glavnom prozoru odabrati Wireless Networks podešavanja.

🕹 Wirele	ss Network Conn	ection Prop	erties	?×
General	Wireless Networks	Advanced		
Connect	t using:			
≣∰) In	ntel(R) PRO/Wireless L	AN 2100 3B	<u>C</u> onfigure	
This c <u>o</u> r	nnection uses the follow	wing items:		
2 7	AEGIS Protocol (IEEE	E 802.1x) v3.2.0	).3	•
✓ 3 <sup>-</sup>	WLAN Transport			
⊻ *	Internet Protocol (TCF	P/IP)		-
<				>
	ostall	<u>J</u> ninstall	P <u>r</u> operties	5
Descri	iption			
Trans wide acros	mission Control Protoc area network protocol s diverse interconnect	ol/Internet Prot that provides co ed networks.	ocol. The defau ommunication	lt
☑ Sho <u>v</u> ☑ Notif	vicon in notification ar yme when this conned	ea when conne ction has limited	cted or no connectiv	/ity
		0	K Ca	ancel

Pa kliknuti na *Add..* opciju da bi napravili novi profil za eduroam servis.

🕹 Wireless Network Connection Properties 🛛 🔹 🔀
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:
Move up
Move down
Add Remove Properties Learn about setting up wireless network Advanced
configuration.
OK Cancel

U prozoru koji će se otvoriti, kod opcije **Network name (SSID)**, upisati ime mreže: eduroam (bitno je da sva slova budu mala!). U delu **Wireless network key**, za opcije **Network Authentication** i **Data encription** u padajućem meniju obeležiti **WPA2** i **AES** respektivno. Na kraju kliknuti na tab **Authentication** u vrhu prozora.



<u>.</u> v	Vireless Network Connection Properties ?X
Ge	neral Wireless Networks Advanced
4	Wireless network properties
	Association Authentication Connection
	Network name (SSID): eduroam
	Connect even if this network is not broadcasting Wireless network key
	This network requires a key for the following:
	Network Authentication: WPA2
	Data encryption:
	Network key:
	Confirm network key:
	Key inde <u>x</u> (advanced): 1
	✓ The key is provided for me automatically
	This is a <u>computer-to-computer</u> (ad hoc) network; wireless access points are not used
	OK Cancel

U *Authentication* prozoru za *EAP type* odabrati SecureW2 EAP-TTLS, zatim isključiti *Authenticate as computer when computer information is available*. I na kraju kliknuti *OK*.

Association       Addientication       Connection         Select this option to provide authenticated network access for wireless Ethernet networks.         ✓ Enable IEEE 802.1x authentication for this network         EAP type:       SecureW2 EAP-TTLS         Protected EAP (PEAP)       SecureW2 EAP-TTLS         Smart Card or other Certificate		
Select this option to provide authenticated network access for wireless Ethernet networks.         ✓ Enable IEEE 802.1x authentication for this network         EAP type:       SecureW2 EAP-TTLS         Protected EAP (PEAP)         SecureW2 EAP-TTLS         Smart Card or other Certificate		
Enable IEEE 802.1x authentication for this network EAP type: SecureW2 EAP-TTLS Protected EAP (PEAP) SecureW2 EAP-TTLS Smart Card or other Certificate		
EAP type: SecureW2 EAP-TTLS Protected EAP (PEAP) SecureW2 EAP-TTLS Smart Card or other Certificate		
Protected EAP (PEAP) SecureW2 EAP-TTLS Smart Card or other Certificate		
Sectiew 2 EAPSTILS Smart Card or other Certificate		
Authenticate as computer when computer information is a		
Authenticate as guest when user or computer information is		
unavailable		



Zatim u Wireless Network Connection Properties kliknuti OK i na taj način zatvoriti prozor.

🕹 Wireless Network Connection Properties 🛛 🔹 🔀
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:
Leduroam (On Demand) Move up
Move down
Add Remove Properties
Learn about <u>setting up wireless network</u> Advanced
OK Cancel

Na ovaj način je završeno podešavanje računara kao i podešavanje SecureW2 softvera u cilju povezivanja na eduroam mrežu. Ova konfiguracija će ostati sačuvana u računaru i nije je potrebno opet podešavati pri ponovnom pristupu eduroam-u.

Da bi pristupili eduroam servisu potrebno je da se nalazite u području pokrivenim eduroam signalom, za više informacija o tome gde sve postoje eduroam tačke pristupa pogledati na adresi: <a href="http://monitor.eduroam.org/eduroam\_map.php?kml=europe">http://monitor.eduroam.org/eduroam\_map.php?kml=europe</a> capital.

Potrebno je kliknuti na ikonicu u donjem desnom uglu ekrana, prikazanoj na slici:



Što će otvoriti prozor Wireless Network Connection, u kome je potrebno odabrati **eduroam** mrežu (ako se na listi ne vidi eduroam mreža, kliknuti na **Refresh network list**) i kliknuti **Connect**.





Nakon toga, ako je sve podešeno ispravno, trebalo bi da se Vaš računar konektuje na eduroam mrežu.

