

Chaoyang University of Technology 802.1X Wi-Fi Settings Description



What is the 802.1X authentication?

IEEE 802.1X is the authentication standards for the internet access of users established by IEEE (Please notice: the X here is capitalized [1]). The full title is 「Port-based Network Access Control, PNAC」 and it is a part of IEEE 802.1 group on networking protocols. After the standardization in 2001, it was revised in accordance with the Wi-Fi Internet access and completed in 2004. It provides an authentication mechanism to devices wishing to attach to a LAN or WLAN.

Extracted from [wiki IEEE_802.1X](#)

802.1X Wi-Fi authentication description:

Campus wireless network **service set identification (SSID): cyut**. It provides the access for the general open networks and the data transmission process is not secured by encryption processing. The wireless network is an open radio waves and the network transmission information might be skimmed and stolen by someone with bad intention. CYUT establishes wireless internet 802.1x **SSID: cyut_802.1X**. The wireless encryption connection provides the more secure and convenient way. The teachers and students of CYUT have difficulties to use the original website authentication and to key in account/password on mobile devices. Today's mobile devices are generally supported with the built-in authentication scheme and it is one-time recorded without authentication re-entry every time.

802.1X wireless coverage:

Whole campus, except the base stations built by individual unit (not joined the campus wireless authentication).

802.1X Wi-Fi authentication instructions:

- **Support Equipment:** mobile devices of android 4.x or above, iOS operating system, Windows system devices should install the third-party software securew2
- **802.1x EAP authentication methods:** First stage with PEAP and second stage with GTC.
- **Account/Password:** Use CYUT e-mail account/password. Please leave them blank and only need account/password, if device provides anonymous name column.
- **Authenticate the legitimacy of source AP:** Some Wi-Fi client device systems support Certificate authentication to provide the verification of source AP legitimacy. [Certificate download](#)| [md5 check](#)

[Android 4.x](#)

[Settings Instruction PDF Apple iOS](#)

[Settings Instruction PDF](#)

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