Y-TEC Wi-Fi Capsule

User Manual — Carry only the Wi-Fi profiles you need in an encrypted file

Version 1.1.0 / September 28, 2026

Contents

1. About this app
2. Requirements and startup
3. Back up profiles
4. Restore profiles
5. Profiles with the same name
6. Encryption and storage
7. Troubleshooting
8. Limitations
9. Official page and contact

1. About This App

Y-TEC Wi-Fi Capsule lists the Wi-Fi profiles saved in Windows and lets you save and restore only the profiles you choose in one encrypted file.

- No password or key file needs to be prepared.
- Backup files use the `.ywcwifi` extension.
- Plaintext Wi-Fi profile XML is never saved to disk.
- The app has no external communication, cloud sync, or analytics.
- Official Y-TEC builds are compatible with official backups from version 1.0.0 onward.
- The interface supports Japanese and English and can be switched while the app is running.

> Wi-Fi names are shown so that you can select profiles. The app never displays Wi-Fi keys on screen or writes them to a log.

2. Requirements and Startup

Item	Requirement
Windows	Windows 7 SP1 / 8 / 8.1 / 10 / 11
CPU	32-bit or 64-bit
Environment	.NET Framework 4.6.1 or later, a Wi-Fi adapter, and WLAN AutoConfig
Permissions	Administrator privileges are required at startup

1. Extract the distribution ZIP to any folder. Do not launch the app from inside the ZIP.
2. Double-click `YtecWifiCapsule.exe`.
3. If User Account Control appears, verify the publisher and download source, then select **Yes**.

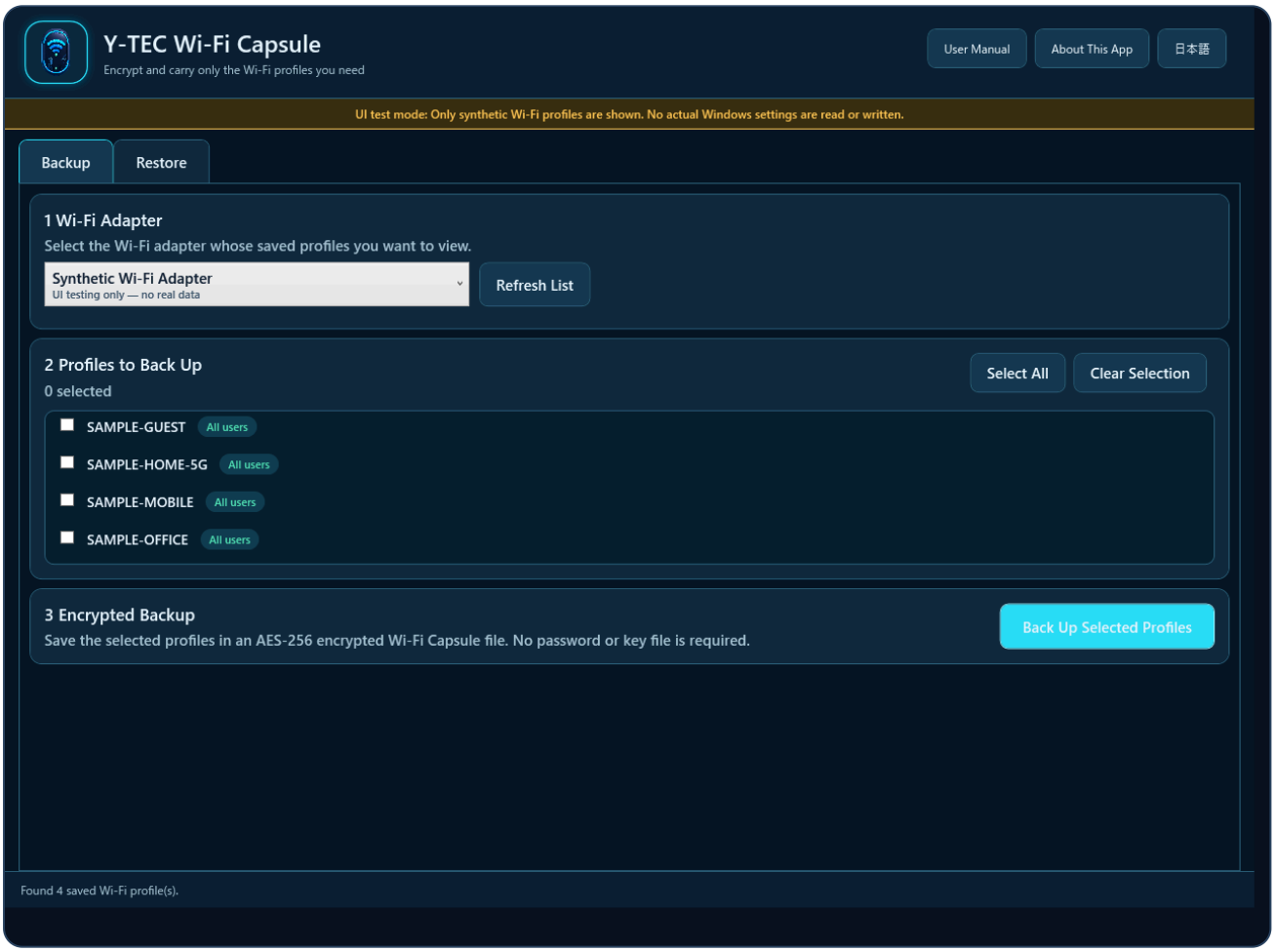
The initial language is Japanese when the Windows display language is Japanese; otherwise it is English. Use **English / 日本語** in the app to switch for the current session. The manual opens in the current app language.

The September 28, 2026 republish is a Y-TEC self-signed Preview. It is not a trusted certificate-authority or SignPath signature; SmartScreen may still warn. Verify the download source and ZIP SHA-256. Do not automatically install the included public certificate as a trusted root. Pre-signing candidates built from public source are unsigned.

Windows 7, 8, and 8.1 are no longer supported by Microsoft. App compatibility does not make those operating systems secure.

3. Back Up Wi-Fi Profiles

1. Open the **Backup** tab.
2. Select the Wi-Fi adapter. If the list is outdated, select **Refresh List**.
3. Select only the profiles you want to save. You can also use **Select All** and **Clear Selection**.
4. Select **Back Up Selected Profiles** and verify the profile count in the confirmation dialog.
5. Choose a destination and a new file name. Existing files are never overwritten.
6. When **Backup Complete** appears, move the file to a secure storage location.

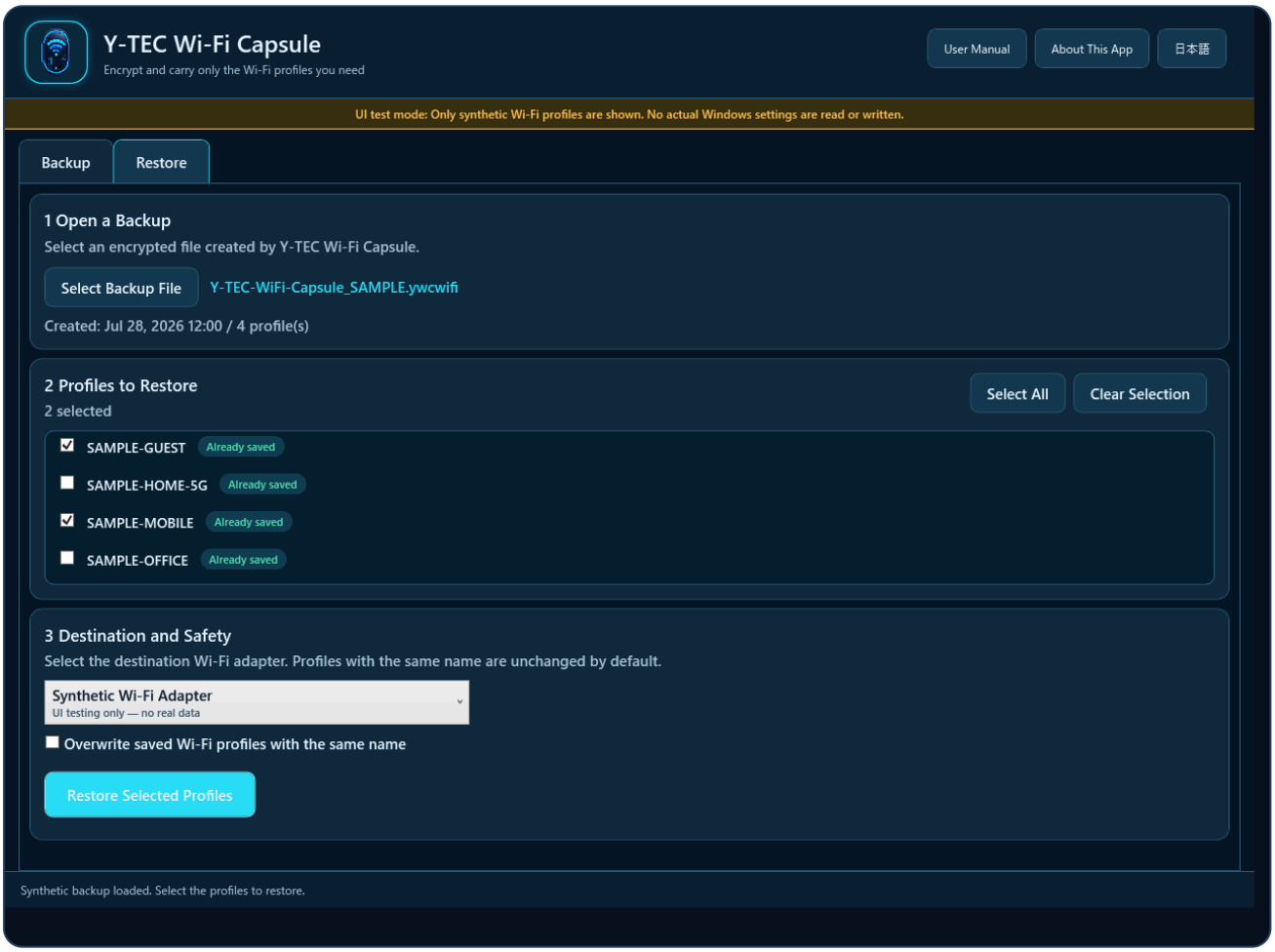


Backup screen. Select only the profiles you need.

> If a profile changes after selection, the app stops. Refresh the list and select the profiles again.

4. Restore Wi-Fi Profiles

1. Open the **Restore** tab.
2. Use **Select Backup File** to open a `.ywcwifi` file.
3. Verify the creation time and profile count, then select only the profiles you want to restore.
4. Select the destination Wi-Fi adapter.
5. Normally, leave overwrite disabled and select **Restore Selected Profiles**.
6. Check the restored, unchanged, and failed counts.



Restore screen. Select profiles only after the encrypted file has been validated.

> After restoring, open Windows Wi-Fi settings and verify that the target network can be connected.

5. Profiles with the Same Name

The restore list shows the state of each profile on the destination adapter.

Display	Default behavior
New	The selected profile is added to Windows.
Already saved	The existing profile is skipped without changes when overwrite is disabled.

> Enabling **Overwrite saved Wi-Fi profiles with the same name** replaces selected profiles with matching names. Leave it disabled if the current profiles must be preserved.

6. Encryption and Storage

- AES-256-CBC encrypts the content, and HMAC-SHA-256 detects tampering.
- Each backup uses a random salt and initialization vector.
- The app does not decrypt content until authentication succeeds.
- No password, external key file, or PC-specific key is used.

Because official builds use an embedded application key, a backup can be moved to another PC and restored with the official app.

> Official Y-TEC builds embed the compatibility key during the build. The official key is not included in the public source code.

> A standard public-source build uses a publicly known development key and displays a warning at the top of the window. Do not use that build for real data. Custom-key builds are not compatible with official Y-TEC builds.

> Even an official build cannot guarantee confidentiality against an attacker capable of advanced executable or memory analysis. Never publish or give a backup file to an untrusted party.

Keep important profiles on more than one secure storage medium rather than relying on a single encrypted file.

7. Troubleshooting

Symptom	What to check
No Wi-Fi adapter	Confirm that the wireless device is enabled and the WLAN AutoConfig service is running.
No saved profiles	Select the correct adapter, then select **Refresh List**.
The Wi-Fi key cannot be read	Confirm that the app is running as administrator. A management policy may prevent access.
A backup will not open	Check the extension, file completeness, app build compatibility, and possible tampering.
Restore fails	Check administrator privileges and whether the destination OS and adapter support the authentication method.
A same-name profile does not change	The safe default is to skip it. Enable overwrite only when replacement is intended.

8. Limitations

- The app does not automatically connect to Wi-Fi networks.
- It does not collect nearby networks, BSSIDs, or location data.
- Migration of enterprise 802.1X certificates, external certificates, smart cards, and hardware keys is not guaranteed.
- Registration can fail when an older Windows version does not understand a newer authentication method.
- Windows on ARM, Windows Server, macOS, Linux, and mobile operating systems are not supported.
- Windows SmartScreen may warn about self-signed or unsigned builds. The app does not provide instructions to bypass security warnings.
- Open-source availability does not make a third-party build official or compatible with official backups.

9. Official Page and Contact

Official page: https://ytec.cloudfree.jp/forge/en/projects/wifi-capsule/

Contact: https://ytec.cloudfree.jp/forge/contact/

Do not attach real SSIDs, Wi-Fi keys, profile XML, or backup files to inquiries.

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