

NLock1.0

User documentation

Introduction

NLock is a experimental software which tries to bridge the gap between biometric modalities and encryption and as a result NLock software can lock your files using a conventional PC webcam. You can lock files and using NLock application you can unlock your NLock files from anywhere.

When not to use

Don't lock your important files using NLock for still the application is in beta version and security of the NLock application is not yet strong

Main Windows

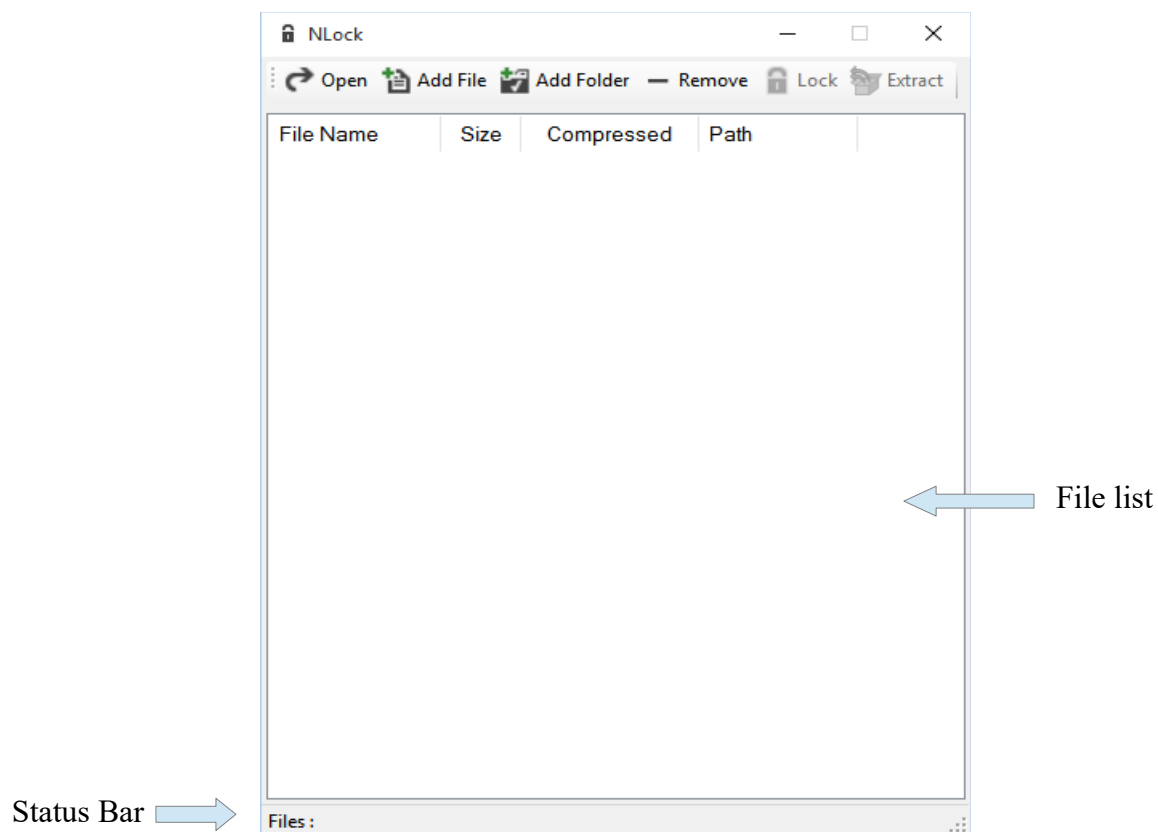








Illustration 1: Main Window

- Open  - Open a locked NLock container (.nlk) for editing
- Add File  - Add files to the currently editing NLock container
- Remove  - Remove selected file from the file list area
- Add Folder  - Add a folder to the currently editing NLock container and it will add

the its contents recursive with all the sub-folders and files within sub-folders.

- Lock  - This will lock the currently editing NLock container with details of the users face and save it to a desired location. It will open up the [Illustration 2 : Biometric Locker Window](#)
- Extract  - This will extract an opened NLock container to a desired location. It will open up a folder browser for you to select a location to extract.

Biometric Locker Window

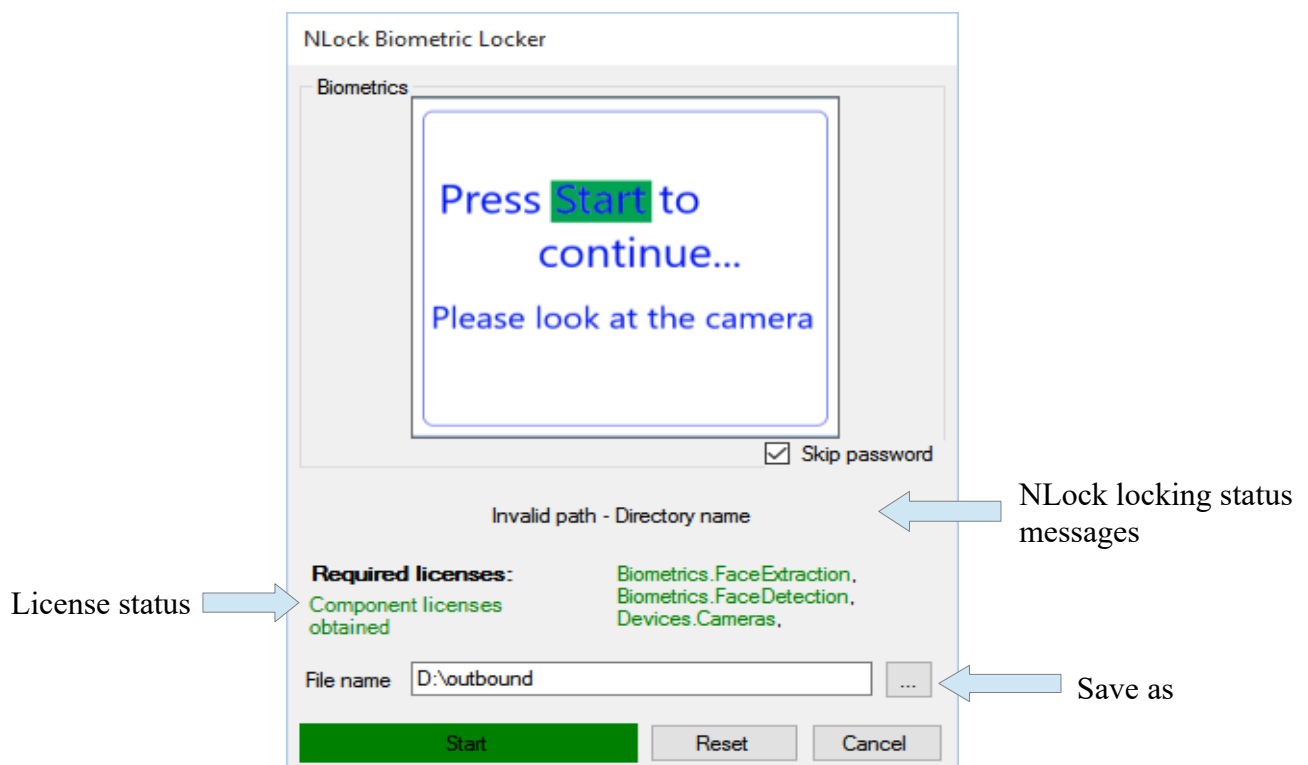


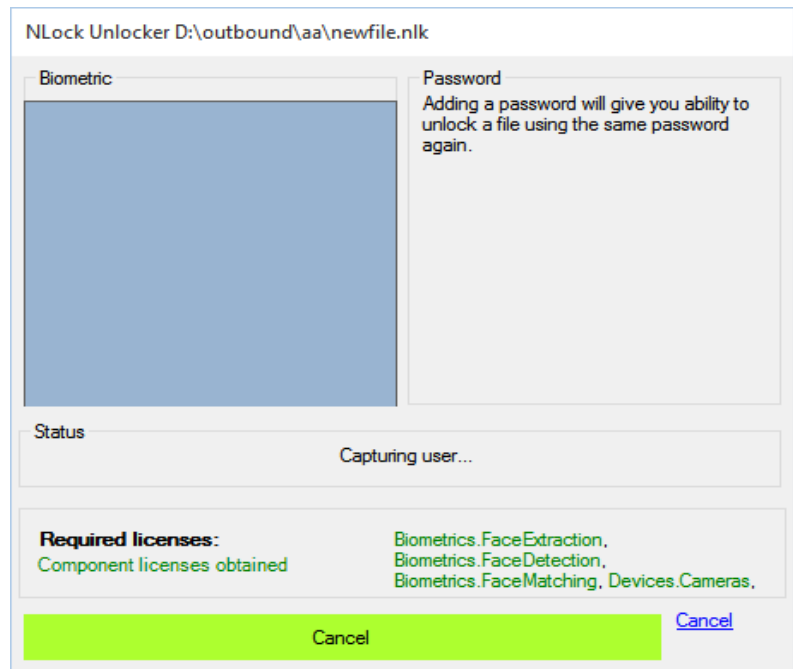
Illustration 2: Biometric Locker Window

- Start** – Will start biometric face capturing
- Skip Password** – Will skip the password addition process and save the NLock container (*.nlk)
- Reset** – Will reset the Biometric locker form to initial status

NLock File (*.nlk) Opening Operation

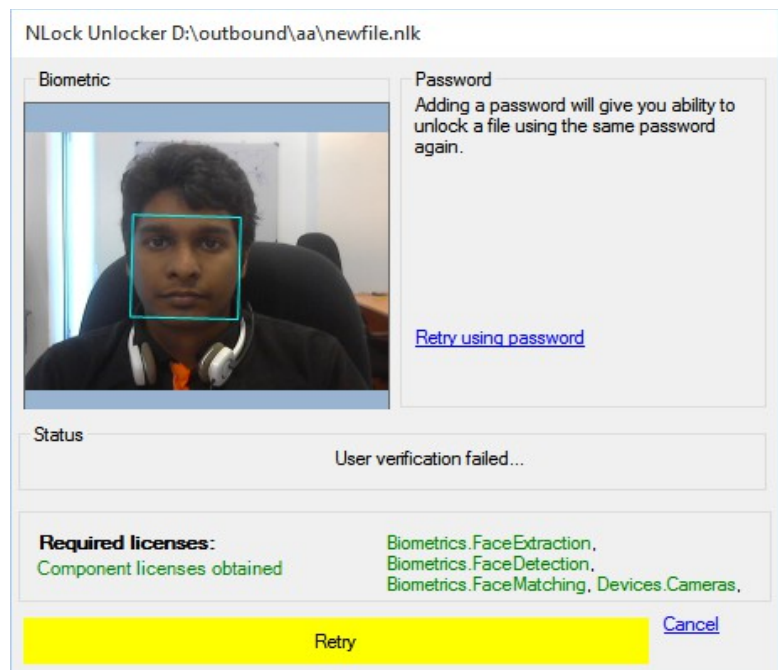
1. Capturing Process

NLock is capturing users face details (biometric template) from the camera.

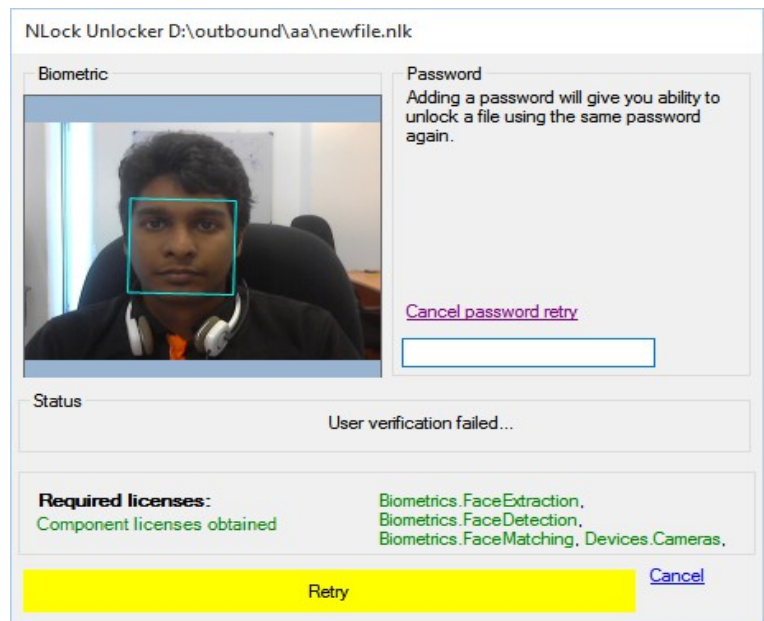


2. User identification failed

After capturing NLock has tried to unlock but because biometric operations failed to identify the user it fails to unlock and give you a chance to unlock it using the password.

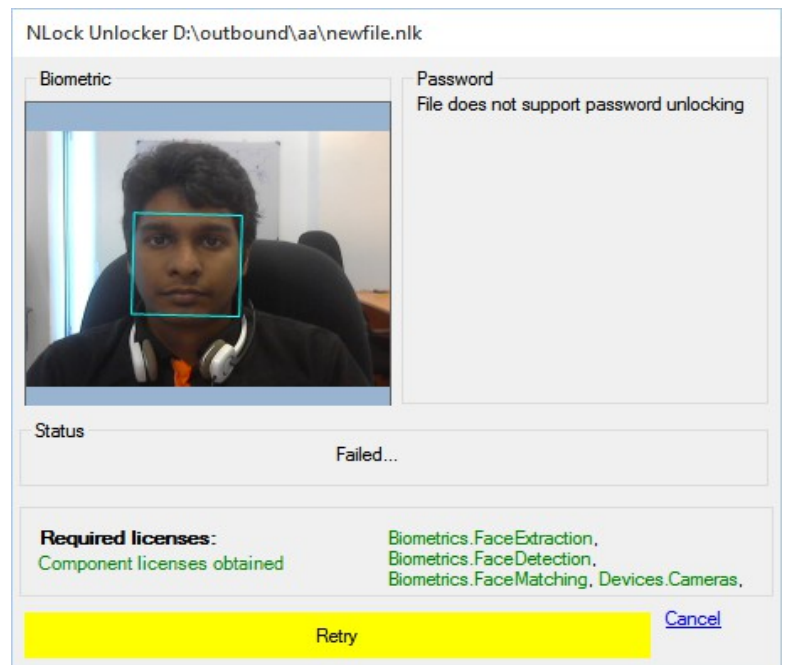


3. Password unlocking



4. File is locked without a password.

This file is locked without using a password and therefore can only be unlocked by the same users face.



System Requirements

- **Microsoft Windows specific requirements:**

Microsoft Windows XP / Vista / 7 / 8 / 8.1 / 10, 32-bit.

Microsoft .NET framework 4.5 or higher

Microsoft DirectX 9.0 or later (for face capture using camera/webcam)

NLock internally uses Neurotechnology VeriLook SDK and thus should meet requirements of VeriLook SDK.

“VeriLook face identification technology, algorithm and SDK for PC, smartphones and Web.”

[Online]. Available: <http://www.neurotechnology.com/verilook.html>. [Accessed: 19-Feb-2016].

- **Specific Hardware Requirements**

PC Webcam

Ram – Ram usage is currently high on NLock due in memory locking operation and will be changed in future operations