



ThinC-VAULT

(Secure USB with Biometric authentication)

ThinC Agent User Manual

A product by
Ensurity Technologies
<https://thinc.ensurity.com>

ENSURITY
T E C H N O L O G I E S



Table of Contents

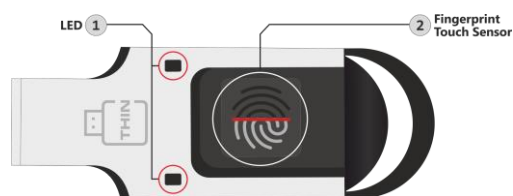
1	ThinC-VAULT: Introduction	3
2	Hardware Specifications	4
3	LED Indications.....	5
4	ThinC Agent.....	6
4.1.1	Installation Microsoft® Windows®	6
4.1.2	Uninstallation Microsoft® Windows®	10
5	ThinC Agent Functionality for End User.....	12

ThinC-VAULT: Introduction

ThinC-VAULT is a USB (Universal Serial Bus) based external data storage device (Pen Drive / Flash Drive) with built-in fingerprint biometric security and military grade encryption. ThinC-VAULT protects the data with the hardware-based 256-bit AES encryption, the keys for encryption gets generated and stored in devices Secure Element. By using a secure element in ThinC-VAULT provides an additional layer of security and increases the level of protection for encrypted data stored on the device.

ThinC enhances and establishes an authentic access control to the device using fingerprint-based biometric security. This touch-based sensor is exceptionally responsive; ThinC-VAULT uses hardware to match enrolled fingerprint and unlocking device.

The ordered ThinC-VAULT is with 128GB storage capacity. The download-able complementary standalone management tool is available with each device, for managing the device/s, partitions, and fingerprint enrolment. The device has a robust metallic casing and designed for long-term persistent performance even after multiple time USB use cycles (Plug-in-Plug out).













Hardware Specifications







The following table provides brief specification of ThinC-VAULT device.

Sn	Feature	Specification / Description
1	Connectivity	<ul style="list-style-type: none"> High-speed USB 2.0
2	Capacity	<ul style="list-style-type: none"> 128 GB
3	Fingerprint Biometrics	<ul style="list-style-type: none"> Capacitive touch based fingerprint sensor Upto 15 Fingerprint registrations Upto 5 Users and each user can enroll 3 fingerprints
4	Security & Cryptology	<ul style="list-style-type: none"> AES256 for Fingerprint store and data encryption Dynamic on-chip Key generation Design in compliance with FIPS 140-2 Level 2 standards Individual partitions are encrypted with different key
5	Certifications	<ul style="list-style-type: none"> FCC CE
6	Partitions	<ul style="list-style-type: none"> Upto 8 partitions are supported
7	Access Control	<ul style="list-style-type: none"> Read / Write Read Only Password for partition
8	Performance	<ul style="list-style-type: none"> Durability: ~20,000 insertion cycles Typical Average Read speed: ~38 Mbps Typical Average Write speed: ~35 Mbps
9	Environment	<ul style="list-style-type: none"> Storage Temperature: -40°C to 85°C Operating Temperature: -5°C to 55°C Operating Voltage: 4.9V ~ 5.1V
10	Fingerprint Registration Software Compatibility	<ul style="list-style-type: none"> Microsoft® Windows® 8.1 and above for Desktop versions (64Bit)

LED Indications

The following table indicates the state of LED after the device is connected and powered on

Function	State	LED State	Remarks
Power On	-		Typically, 1-2 seconds
BITE (Built In Test)	-		BITE Successful
	-		BITE Failure after 7 sec
Fingerprint scan	Wait		Wait for fingerprint - typically 30 sec time out.
	Process		
	Success		
	Fail		
Delete Fingerprint	Success		Typically, 1-2 seconds
	Fail		
Factory Reset	Success		
	After Reset		Disconnect and reconnect the device
	Fail		Typically, 1-2 seconds
SD Card Operations	Read/Write		Data read / write from the device

					
Blinking		Slow Blinking		Glow	

ThinC Agent

ThinC Agent is a standalone user tool to interact / operate device's advanced security functions like unlock password protected partitions & unlock binding for using device.. Connect the ThinC–VAULT to computer USB port, the device would power on, initialize and install necessary drivers automatically and await to read fingerprint. ThinC Agent is not required to use the devices basic functions.

Installation Microsoft® Windows®

This section of the manual describes installation process of ThinC Agent tool for Microsoft® Windows®. ThinC Agent tool is a software utility required for unlocking partitions and generating PC Fingerprint Value.

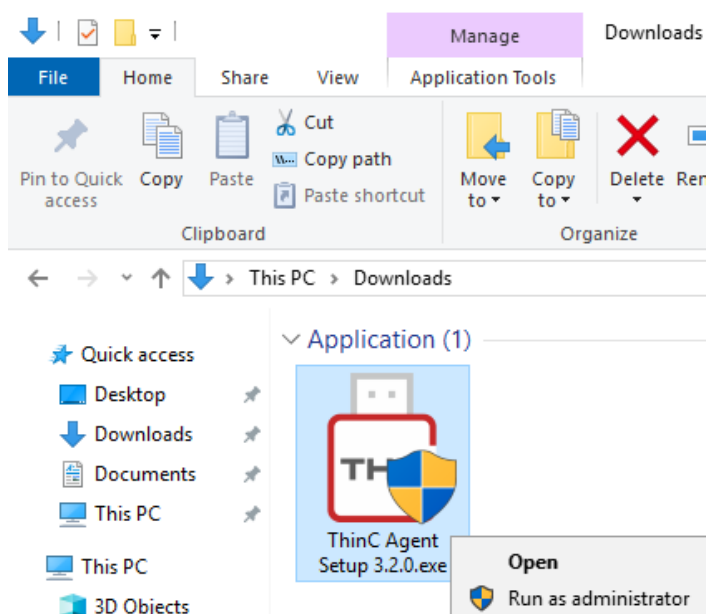
Please download ThinC Agent tool installer for Microsoft® Windows® operating system.

Step 1:

- Open the downloaded file to begin the installation wizard.

During the installation process in Microsoft® Windows® 8.1 / Windows® 10 or above, it is possible that Microsoft Smart Screen protector may pop up window for permission. Kindly choose to provide necessary permissions by selecting 'Run Anyway' (or equivalent).

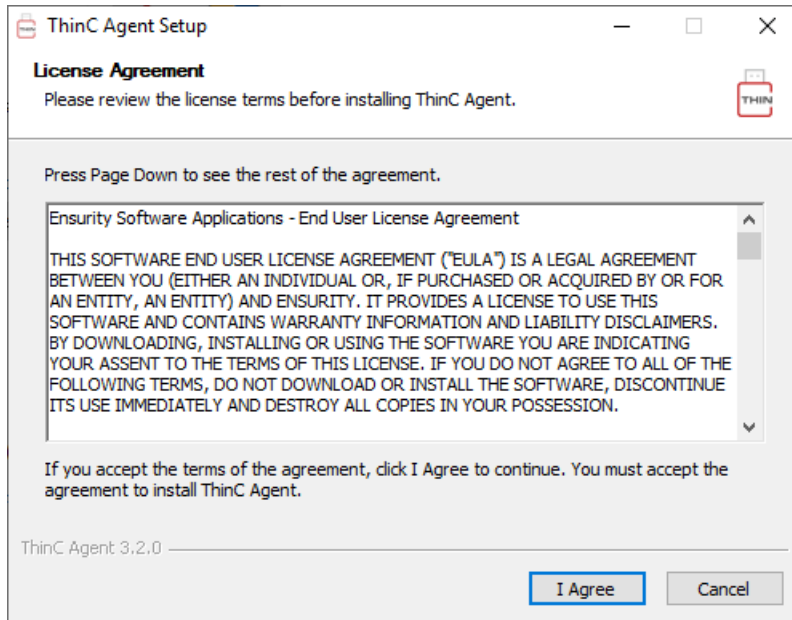
It is possible that the User Access control / Antivirus / End Point Protector software could request you to approve the installation of the software. Kindly choose to permit any such request that may be popped up during installation.



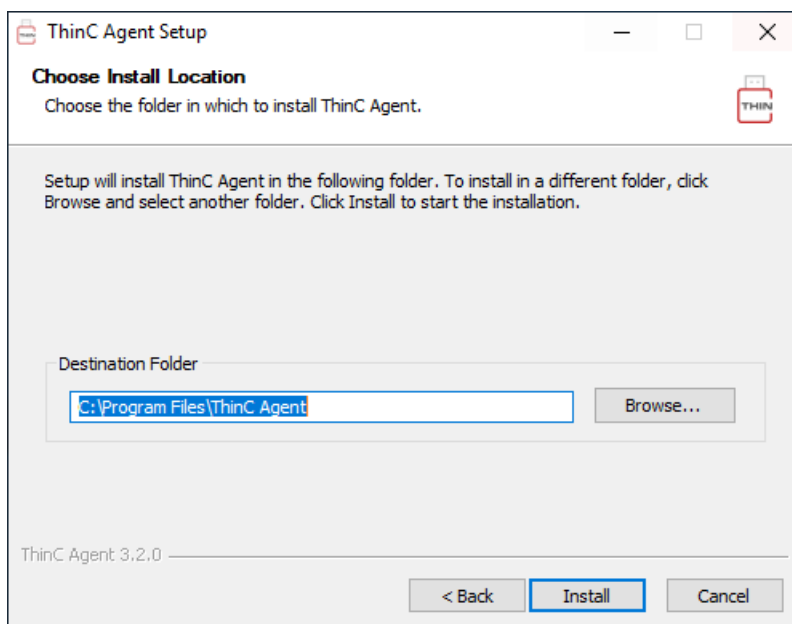
Typical window showing the downloaded installer tool in Microsoft Windows 10 operating system.

Step 2:

- After opening ThinC Agent tool installer, license agreement window will be shown. Please read the Ensurity Software Applications - End Users License Agreement completely and choose to accept by selecting on "I accept the agreement" and click on Next to proceed further with the wizard. Choosing cancel any time during the installation process will abort the installation.

**Step 3:**

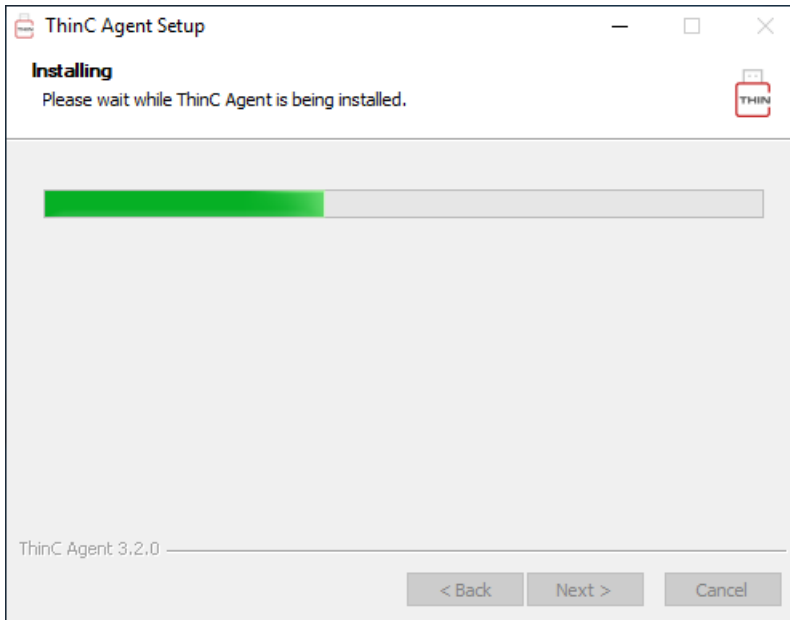
- Select Start Menu Folder window provides option to choose location for placing shortcut in Windows Start menu. By default, tool shortcut should be created in start menu folder. Click Next to continue installation wizard.



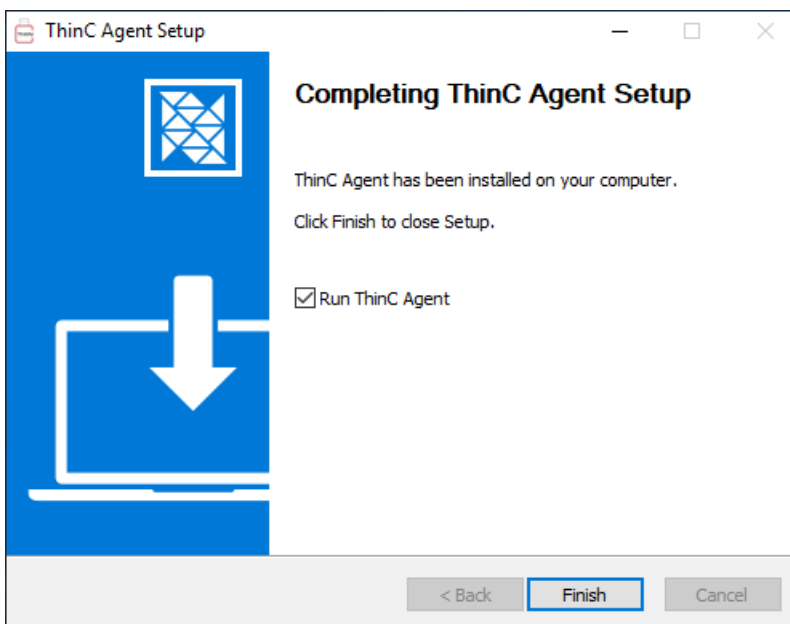
Step 4:

- The Installation window will show progress of installation. Once the installation process is initialized this process can't be stopped / aborted.

i If installation is stopped or aborted tool will not be installed.

**Step 5:**

- After the installation is successfully completed





Click on Finish to complete the installation and launch the tool immediately. Deselect "Launch ThinC Manager tool" and click Finish to close the installer and use the tool later. Use desktop shortcut or start menu shortcut or navigate to install path to run ThinC Management tool.

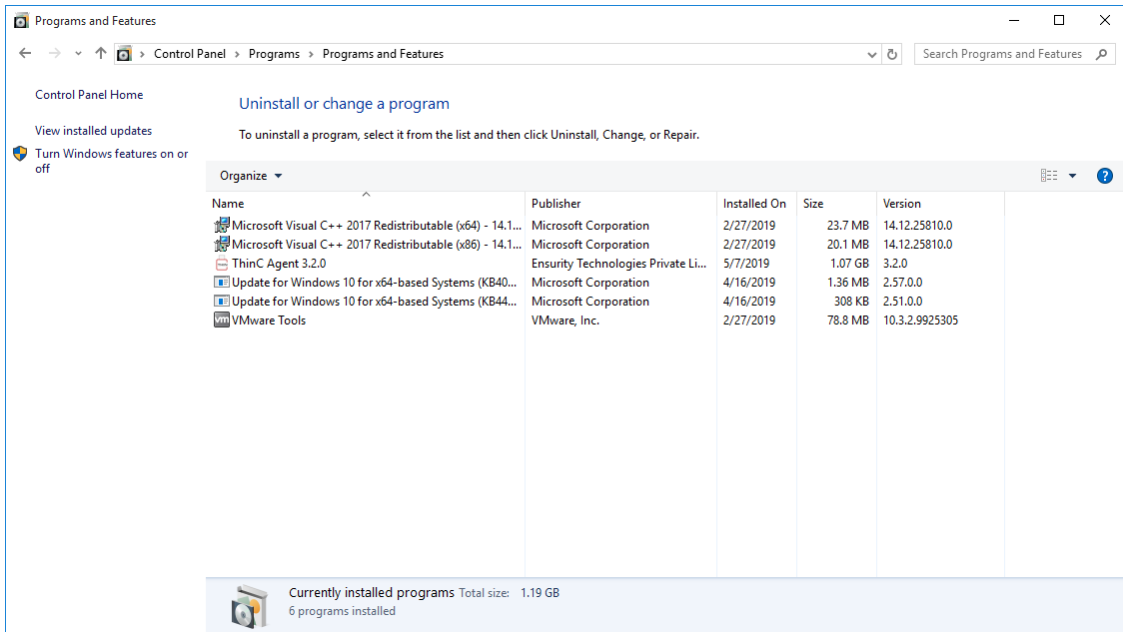
In case of any issue or error during the installation, please contact support at thinc.support@ensurity.com or visit us on ensurity.com for technical support.

Uninstallation Microsoft® Windows®

Follow the below steps to uninstall ThinC Agent tool from Windows®

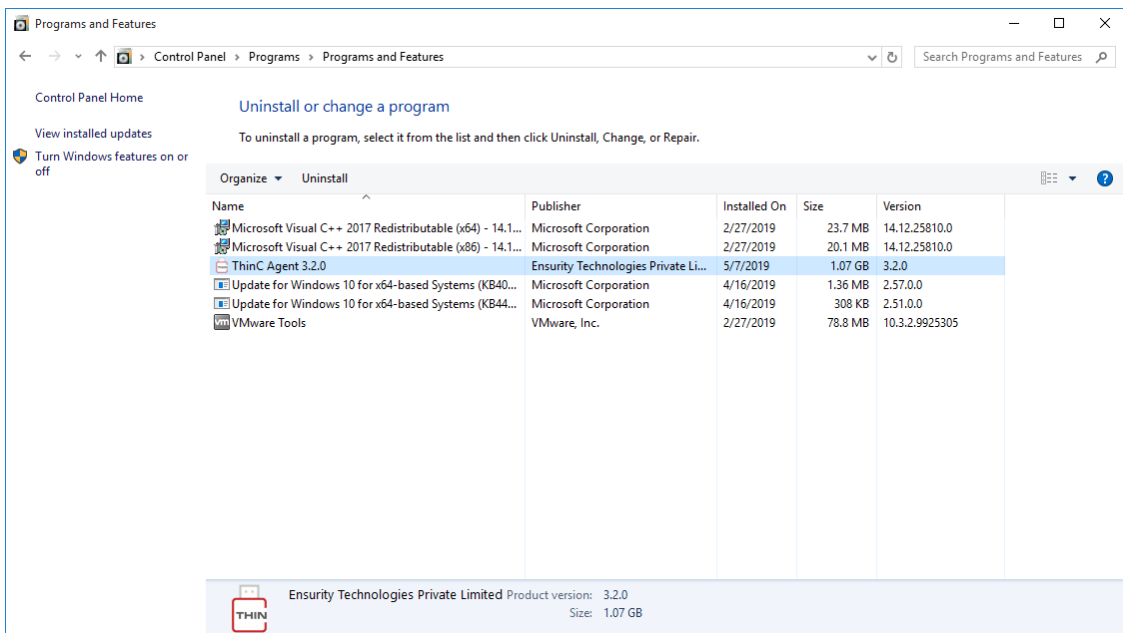
Step 1:

- Goto Windows Control Panel > Programs and features. Or Control Panel > Uninstall a program.



Step 2:

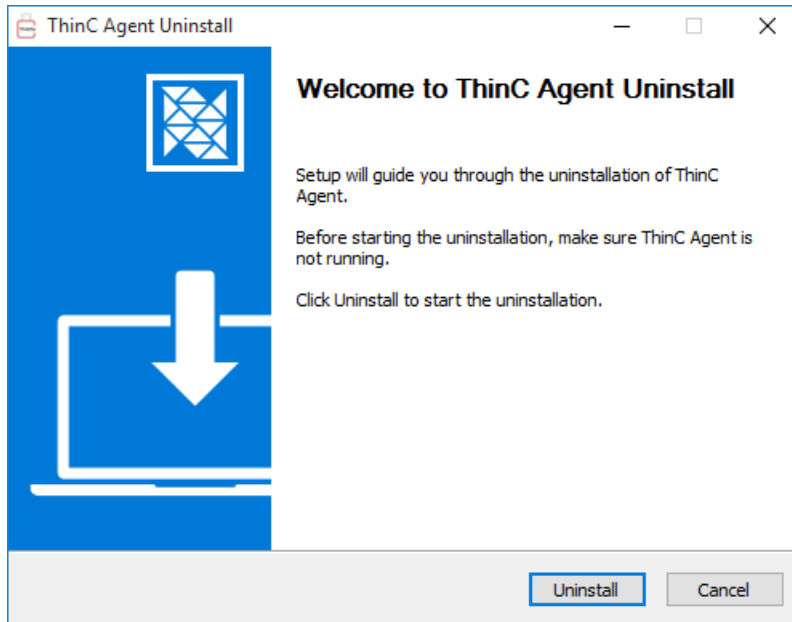
- Select "ThinC Agent x.y.z" and click Uninstall or Uninstall/Change.



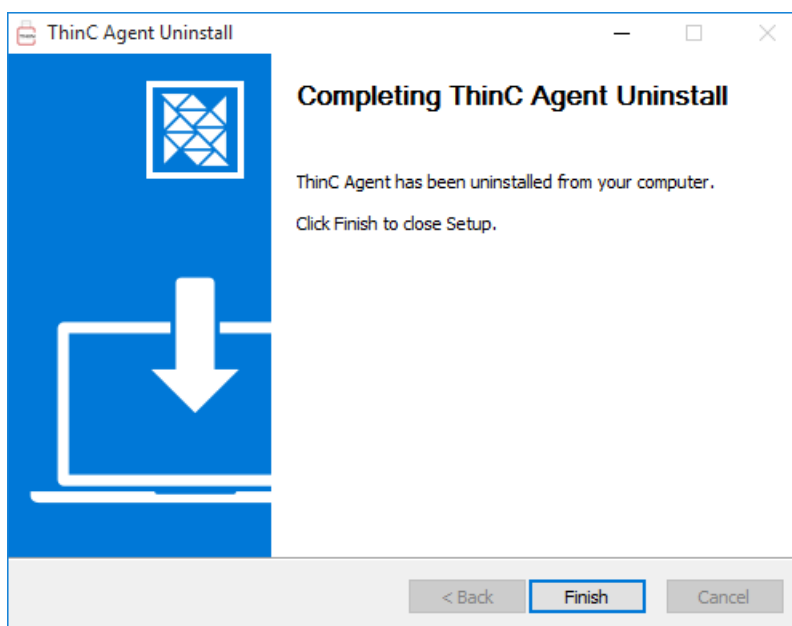
i During uninstallation process Microsoft® Windows® can request permission to uninstall ThinC Agent tool, choose to accept or click Yes to continue uninstall. Choose No to abort the operation.

Step 3:

- ThinC Agent tool uninstall window will ask to reconfirm Uninstallation process. To proceed further choose Uninstall and to abort choose Cancel.

**Step 4:**

- Uninstaller will remove / delete ThinC Agent files from installation directory. After uninstalling the tool, Microsoft Windows will show "ThinC Agent has been uninstalled from your computer" click Finish to complete the uninstallation process. In case of any issue during uninstallation kindly contact thinc.support@ensurity.com with subject "Uninstall-Windows".



ThinC Agent Functionality for End User

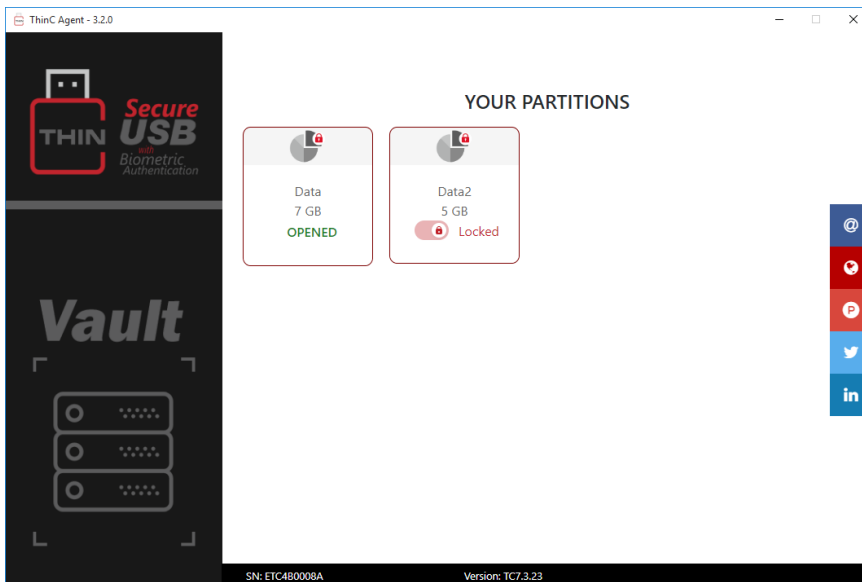
This section of the document describes the functionality of ThinC Agent tool

Lock / Unlock Partitions with

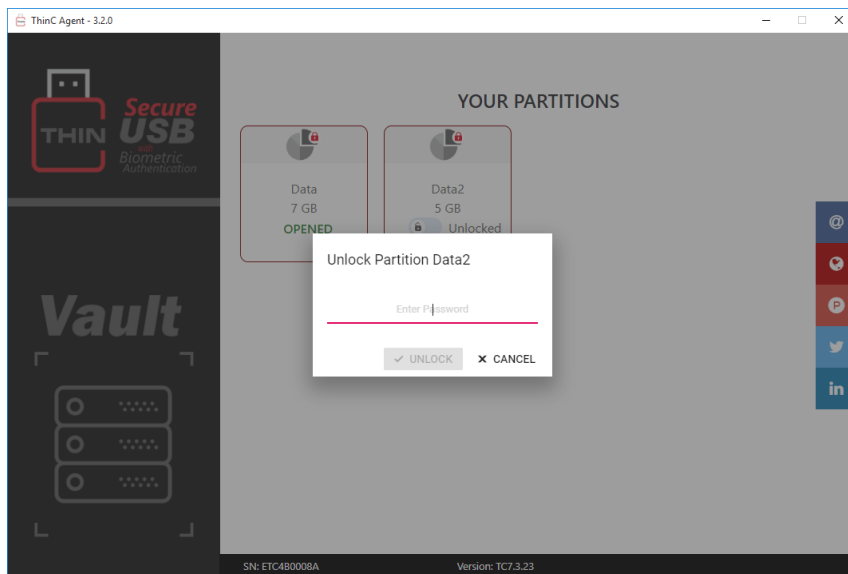
- Once the admin has created a partition with password, the user must unlock the partition using ThinC Agent tool. To unlock the device partition, launch ThinC Agent.



- The tool displays all the partitions assigned to the user. Click on the toggle switch to unlock the partition.

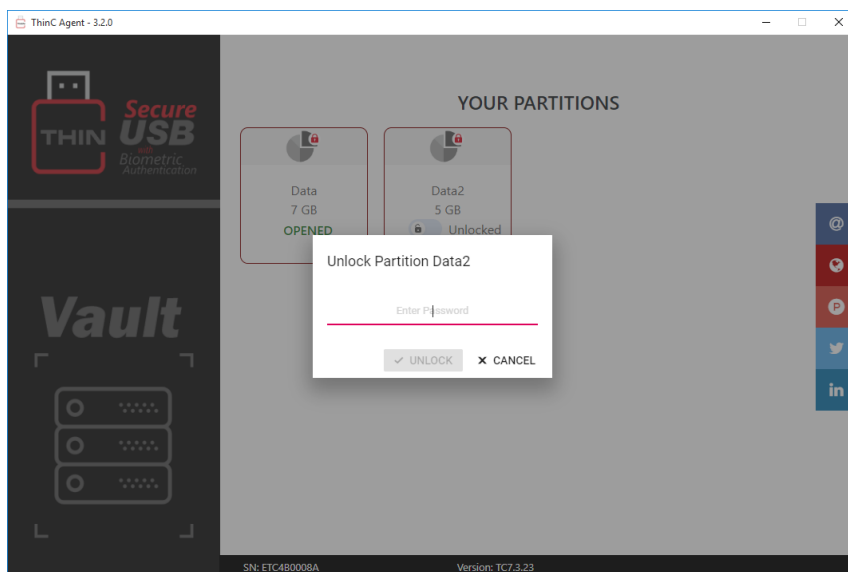


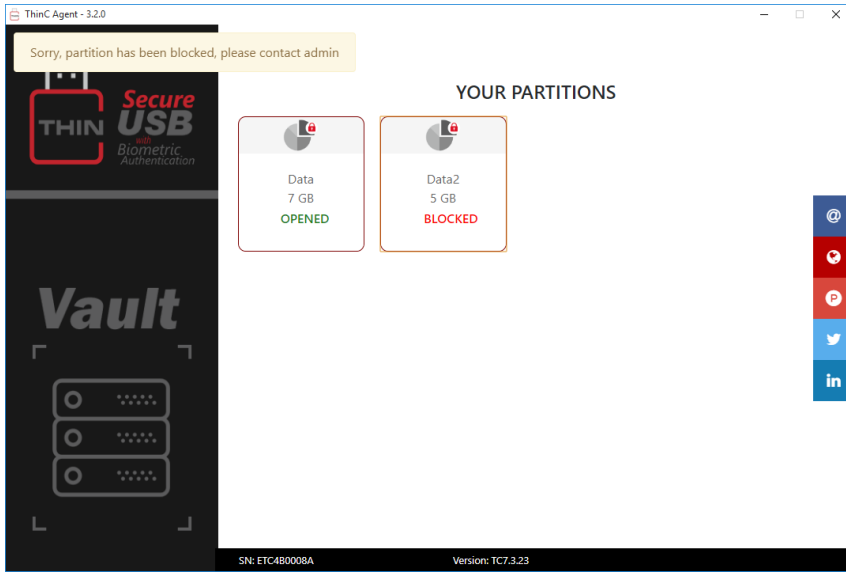
- Enter the password and click on Unlock. Only after unlocking the partition the partition will initialize / enumerated.



Blocked Partition

- If the user has entered wrong password 3 times in a row, the partition will be blocked and only the admin can unblock the partition.

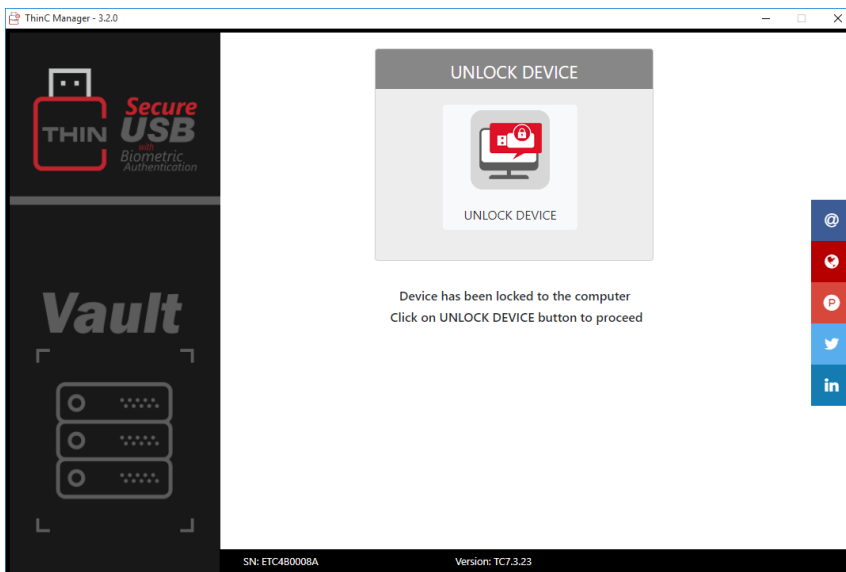




i Only individual partitions can be blocked, the group partitions cannot be blocked.

ThinC-VAULT with Binding feature enabled

- Once the Admin enables the binding feature of ThinC-VAULT device, the user needs to unlock the device for enumerating partitions. Open ThinC Agent tool and click on the device that needs to be managed. Click on Unlock Device.



- The tool displays all the partitions assigned to the user. Click on the toggle switch to unlock the partition.

