ITWIN Technology

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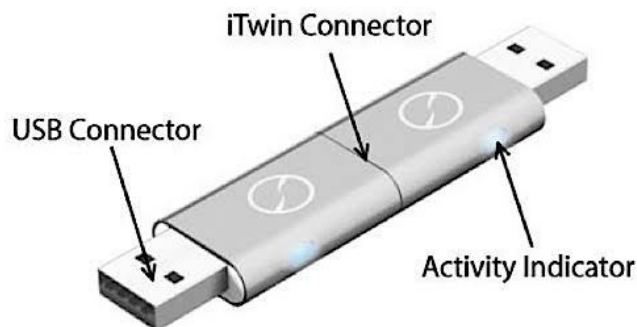[1]assistant professor, Dept of MCA
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Abstract- Itwin is a new way of file sharing and accessing device. It is an plug and play device. USB flash drive and cloud storage are used to store the data. But USB flash dive is to0 small si it can be easily misused and the cloud storage can also be misused when the username and the password is hacked. To solve this problem itwin is the best solution.This paper is about the itwin device introduction, how it works unique features, advantages and disadvantages.

Keywords- itwin, cloud storage,USB

I. INTRODUCTION

iTwin is a completely new file sharing and remote access device brought by a company called iTwin. It's like a two plug cable, without the cable. It is as much simple to use like a flash drive. It's exactly plug and play method. iTwin will connected with any two online computers anywhere in the world. iTwin enables you to share and access to any or all of your home computer's files and folders while you're on-the-go. Similarly, You can also use iTwin to share and access to any or all of your office computer's files and folders while on-the-go. There is no in-built limitations to the amount of storage you can access with iTwin while you're on-the-go. The only limit is the size of your hard drives and the speed of your Internet connection. It is faster, the better your experience.You can select the files for accessing later your busy, or you can edit the files remotely, without the files leaving your computer. You can also back-up files to your home or office computer while you are out of busy. It is so easy it use and it is unbelievable. iTwin allow you to access your desktop's files while you are traveling. Similarly, you can also use iTwin to access your office desktop's files while your busy. The only one drawback is That the speed of your internet connection.
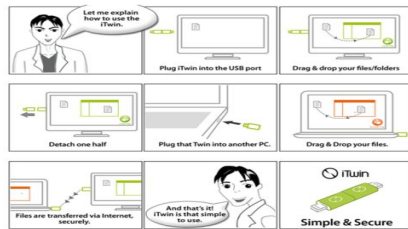

II. HISTORY

iTwin is a Singaporean root start-up which made it as the presentation stage on the TechCrunch50 conference. The founders if itwin are Lux and Kal designed and executed a product known as iTwin which is a plug & play remote file to access. So, we grab them both to tell us their story, the device iTwin and its features and also their next steps on the device.

iTwin was developed by an Indian Lux Anantharaman. After his Bachelor's degree in Electrical and Electronic Engineering at IIT in Chennai and a Masters degree from IISc in Bangalore, he first worked as an IT security researcher at the Institute of Systems Science, in Singapore and then as senior researcher at Kent Ridge Digital Labs and the Institute for Infocomm Research. He is much specialized in PKI administration is well organized digital certificate revocations and usable security. Lux was chasing a part-time MBA at NUS Business School at, Singapore, but he put studies on hold because of potential of iTwin.

III. HOW IT WORKS

The iTwin Connect device is look like a USB flash drive which is designed with two USB port connections. The device is very compact and build a secure connection between two computers or between one computer and the iTwin server. When you plug the iTwin device into your main computer in home or at work, the software is automatically installed and arrange the computer for the remote connection. Once the device is disconnected from the main computer, you want to separate the two parts of the USB stick which results in two

separate USB devices.The two separate devices are very compact which is less than two inches which makes it convenient and easy to carry with you. When you connect the second part of the itwin to your laptop while on the go, it will automatically install itself without any user involvement. Additionally, you can set aspecial password that impair the device in the event you happen to lose it. This ensures you can lock your files to prevent access from an unauthorized user.

IV. UNIQUE FEATURES

1. Smart key generation

Two iTwins together initiate a random 256-bit AES key, every time it is physically paired and plugged into an computer. Smart Key cohort is aided by the computer to add randomness. Smart crypto key occupies only on the two halves of the paired iTwin. Smart Crypto key is used for encrypting all data jam between two iTwins.

2. No "Temp Files"

Unplug iTwin and all temporary files are removed automatically. This is mainly useful when using a computer that does not belong to you.

3. Password support

ITwin even yield a password support. Passwords can be set at any length. Unlike the other web services, iTwin's password is reserved on itself, not in any server. If suopose you forget your password, simply pair both halves of your iTwin ports, plug them into a computer and set a new password. No need for technical support!

4. Bi-Directional File Access

While using iTwin device the connection between the 2 computers are completely uniform. We can able to Access, copy, backup and remotely edit files on computer A from computer B, and on computer B from computer A. You will have access to files on both the computer A and B
.

5. It will be like the two ends of USB ports,without the cable.

iTwin is just look like a wireless device connecting two systems and securely transferring data between the computers.

V. ADVANTAGES OF ITWIN

- In the case of network interference itwin files transfers is paused.
- When the Internet connection is being again itwin software will continues the transferring work from where it is left of.
- Itwin progress bar shows the amount of file left to be transferred.
- If the itwin connection is lost you can easily disable it.
- If you forgotten your password we can change it easily by attaching both the half itwin ports and set a new one.
- Itwin connect is suitable for both Windows and Mac OS.
- VPN protects you from the hotel and public Wi-Fi networks.
- There is no limitations in expression of file size or type.

VI. DISADVANTAGES OF ITWIN

- Itwin port is just 3.5 inches long in total which means when we dividethe parts   of itwin ports they are very easy to lose.
- When the itwin connect USB dongle is plugged in it will slow down network performance.
- You want to set up the files which you want to share in advance in order to access them.

VII. CONCLUSION

iTwin is a sensational device for the users who are all crave to work from home. They can able to remotely access, edit,

and share the files between your home and office computers. iTwin bypasses cloud services to turn your physical storage into its own networking result. Moreover, iTwin is simply a plug and play type device which answer for dropbox limitations extensively.

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