



Do you know the old saying, "It's too late to close the stable door after the horse has bolted"?

The same happens with data. We wish we could back it all up once our computer has been stolen or lost in an airport. However, increasing numbers of employees work mainly on laptops likely and are likely to carry unsecured data somewhere on their laptop.

### **CONTENTS**

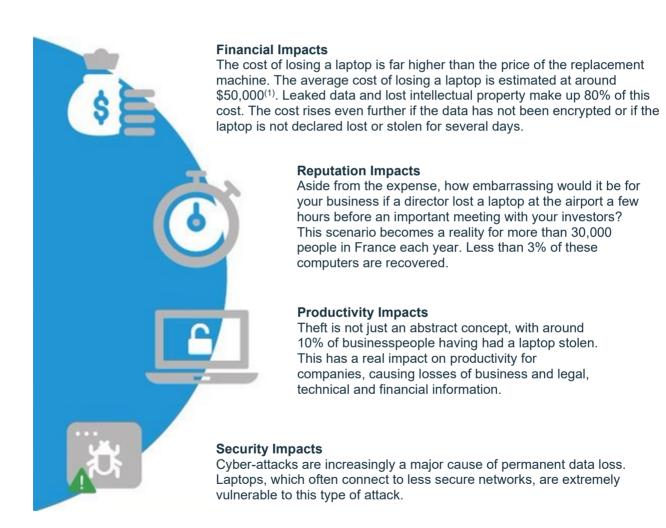
How does losing a laptop affect a company?	Page 3
What is hindering the protection of laptop fleets in the workplace?	Page 5
Criteria for choosing a backup solution adapted to laptop fleets	Page 8
Lina meets 100% of these needs – Testimonials	Page 10
Lina, the admiral of your laptop fleet	Page 11
Protecting my laptop fleet – the final word	Page 13



# How does losing a laptop affect a company?

While there are a thousand ways to lose data or lose a computer, the consequences are always the same: at best it is the frustration of having misplaced a few files, and at worst it is a tragedy, an irrevocable loss.

#### Some impacts:





From the previous figures, it is absolutely clear that laptops must be protected, and frequently. A study<sup>i</sup> conducted over 10 years by the company Backblaze shows how behaviour has changed over time: in 2008 only 65% of laptop owners were performing regular backups. In 2018 this figure has risen to 76%. This is certainly better, but it implies that 24% of them still do not perform regular backups. Oops!

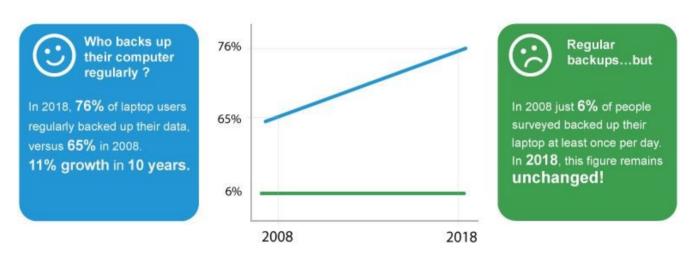


Figure 1- Backblaze 2008/2018 study on backup regularity

But there is a more serious problem here. Consider the notion of "regular backup".

- The same report shows that only 6% of respondents backed up at least once a day in 2008, and this figure had not increased in 2018.
- The study also indicates that more than half of respondents never back up their data or only back it up once a year or less. This is far from ideal.

94% of users back up less than once a day

Admittedly, these figures come from a study conducted among personal computer owners. It should be reasonably expected that professionals are more aware of the issue and have more resources.

However, this is not what we have observed in the field. Our experience shows that, all too often, laptops still escape corporate backups.



# What is hindering the protection of laptop fleets in the workplace?

The good news is that the weakness of these figures leaves a huge margin for improvement in terms of protecting the company's assets and complying with legal constraints.

So, what makes it so difficult to implement an effective backup strategy for laptop fleets in the workplace?

### **Mobility**

The fact that these computers are mobile necessarily poses a problem if the backup solution schedules the protection of a particular computer at a set time. While in the past this scheduling was justified by the allocation of scarce and costly

resources (tape drives for example), the democratisation of disk storage has done away with this constraint. Many backup solutions now offer real-time protection that allows laptops to be protected much more effectively.

What slows down the deployment of backup solutions is their ability to "track" the movement of laptops outside the company's internal high-speed network. Two issues arise:

- How to secure the backup,
- How to manage data volumes with varied and often limited network speeds (home, hotel, airport or on a remote site of the company).



# The complexity of securing backups

There are several possible approaches to securing the backup of these mobile computers once they are outside the company:

- Backing up to encrypted removable disks. This option poses its own significant risks of loss, breakage and theft.
- Creating a secure link from each computer to the company in order to perform the backup over an encrypted channel.
- Trusting a third party to host your data and back up your laptops for you.

The complexity of the issue of security for these laptops is often linked to the fact that having a laptop is still strongly correlated to the employee's position in the company. And often, the higher the position, the higher the "value" of the information to be protected will be.

### Network weakness

Home offices and occasional sites have common problems of limited network capacity due to poor quality Wi-Fi connections and ADSL links with very limited upload capacity.

It isn't unusual to come across IT teams from companies that have deployed a real-time backup solution only to find that

users have stopped their backups because they made the computer unusable. Machine and network resources were simply preventing them from working well!

Remote sites face a volume problem multiplied by the number of active laptops on the site: network occupancy peaks when the computers are connected, and their users want to access their messages or business applications.



## **Delegating** to the user as a last resort

Mobility, security and networks: three factors which when combined still lead far too many companies to give up on trying to back up their laptop fleets and delegate it to their users, with little or no instructions or follow-up. Yes, you read it right: to their users. This is real life. I am sure you can imagine what happens to the USB sticks and other portable hard drives that "secure" these computers...

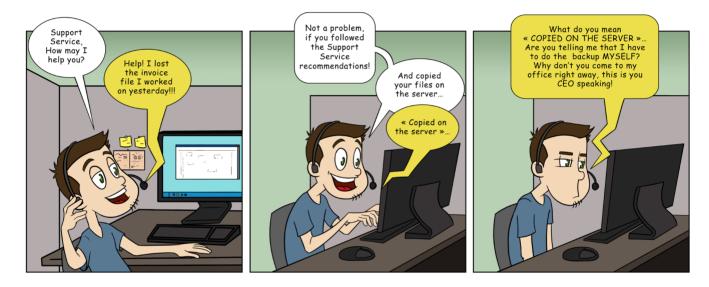
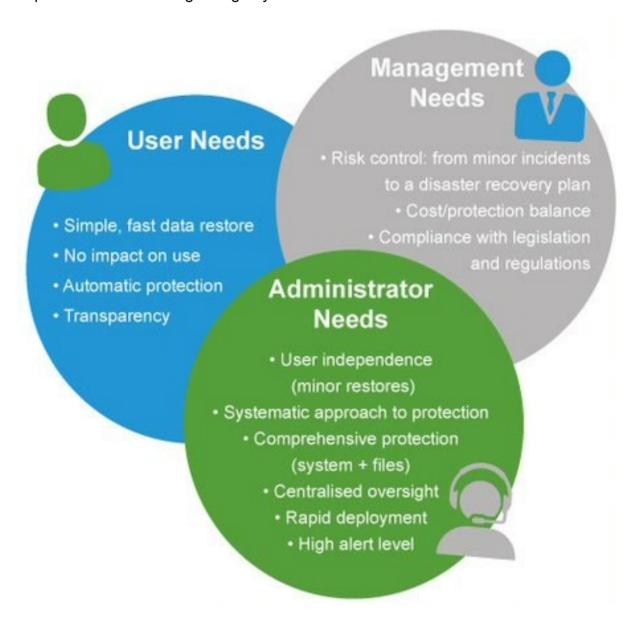


Figure 2 - The limits of a backup policy "delegated" to users



# Criteria for choosing a backup solution adapted to laptop fleets

Several parties are usually involved when it comes to choosing a solution to protect the company's laptops. Implementing the optimal strategy requires taking into account all their expectations without neglecting any of them.





# Checklist of choices

The following checklist ensures that a backup solution is appropriate for protecting the laptop fleet of a company:



☐ Enabling to work on the move regardless of the network and without requiring user or administrator intervention.
■ Enabling to work continuously, without imposed time slots, in a discreet and transparent manner for the user: it should avoid interruptions but must clearly indicate any alerts.
☐ Quick to deploy and configure.
☐ Easy to monitor / supervise: incidents and missed backups must be visible and reported.
☐ Fast and simple restoration to be carried out directly by the actual user. The administrator should not be solicited for this type of routine operations.
☐ Complete protection: files and operating system protection to enable the reconstruction of a replacement computer in a single consolidated step.
☐ Restoring files using a secure web interface from anywhere in the world.
☐ Economical in the volume of files to be transmitted to the server via the network.
☐ Economical in central storage by managing repeated files across several laptops.
☐ Encrypting backup communications and authenticating by SSL certificate.



# Lina meets 100% of these needs - Testimonials





All-in-one protection for mobile computer fleets
THE BEST DEFENSE AGAINST THEFT, CYBERCRIME AND DATA DAMAGE OR LOSS









Ivan Audouard
Systems and Network Manager

"Our needs are simple: effective, user-friendly restore to protect laptops from loss, theft and breakage, transparent backup for users that does not impact workstation performances, and minimum maintenance for the administrator, since the IT support team consists of just three people, based in France, serving the needs of the workforce worldwide."

"Atempo support is great, the products are great.

If it takes us more than 5 minutes to install and make it run, we simply aren't interested!"



**Andy Giddy**Groupe IT Operations Manager



Julien Brevière
IT Manager

"If a salesperson loses or damages a laptop, we could lose contracts. With Lina, I'm not worried anymore. If I know that a file was on a laptop, I have a **backup ready to restore** from any point time and from any place.



### Lina, the admiral of your laptop fleet



#### Automated backup:

Backups are performed automatically and transparently for the user. Configuration is also automated through protection profiles predefined by the administrator.

#### • Continuous backup:

Modifications of computer data are detected in real time. Depending on the criticality of the data, Lina allows you to set the cursor for sending data to the server from a continuous flow to a frequency of once a day.

#### Backup in deduplicated block mode:

In order to optimize disk storage and network bandwidth, every file created or modified is split into small blocks. Only new blocks are sent to the server, in small quantities.

#### Network / CPU optimisation:

Lina adapts to your network configuration and finds the best way to transfer data according to the bandwidth. The backup, with block deduplication, is complemented by the ability to limit the bandwidth used depending on the connection and to adapt the compression.

#### • Seven restore modes:

Local, remote, crossed, web-based... Lina offers seven restore modes covering all the restore needs and scenarios of users and administrators.

#### • Reconstruction of a complete computer:

Lina restores the most recent image of your computer, consolidating the system, applications and data.

#### Centralised administration:

A single administration console allows you to configure and supervise all the workstations in the fleet from a web browser.

#### • Scalability of the software platform:

Setting up the backup of a new laptop takes 5 minutes to install the software and associate it directly with a predefined backup profile.





### Seven ways to restore

#### Focus on key features of Lina

With Lina the focus is on restore facilities. Your users are granted full autonomy to restore their files, freeing up IT teams to focus on more essential tasks. However, if your company's policy is to let the administrator manage restores, this is also possible.

- 1. Restore via a wizard
- 2. Restore directly via Windows File Explorer or macOS Finder
- 3. Web restore
- 4. BMR (Bare Metal Restore) of an entire computer
- 5. Cross-restore
- 6. Restore by the administrator
- 7. Restore by Time Navigation

### **Saving costs**

#### Through resource control via three-level deduplication

Lina answers the following double challenge:

- protecting all your users' valuable data
- while **reducing** the storage volume required for backup

Lina applies deduplication at three levels:

- at the source
- on the storage
- before sending (WAN mode)



#### Advantage no. 1: Saving network resources

Lina performs an initial backup of all the selected files. After this, only new or modified files are protected. All file modifications are detected by Lina and sent to the data repository. The power of the backup engine makes it possible to manage changes at the block level. This means that network and storage bottlenecks are a thing of the past.

#### Advantage no. 2: Saving server storage

Splitting files into blocks also helps to optimise storage space. Indeed, only new blocks are sent over the network and stored in the repository.

### Protecting my laptop fleet – the final word

Your laptop could be stolen from a café terrace or a train in the blink of an eye. The same can be said of falling victim to a cyber-attack. The costs to the company (which finds itself without a recent backup of its unique and valuable data) are sometimes hidden but always high.

Lina is here to help, with an affordable and efficient solution.

<sup>&</sup>lt;sup>i</sup> Source: <u>Backblaze</u> – 2018