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Using tape to defend against ransomware attacks and improve cyber security.

Prepared by Adience for HPE and FUJIFILM Recording Media USA.

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Our starting point

HPE StoreEver and FUJIFILM Recording Media USA wanted to gain more information to inform their go-to-market strategy for tape storage solutions. Specifically, they wanted to explore the attitudes the market has toward ransomware attacks.



Project goals | The study sought to:

Identify what technology is being used to respond to attacks

Explore if tape played an important role and/or if they regret not having tape

Evaluate whether they consider/use tape as a response to threats

Understand what would make them more likely to consider tape storage devices

Who we spoke to

152 survey responses to a 10–15 minute survey representing a mix of businesses/roles



Industry

Healthcare/social assist: 25

Manufacturing: 23

Media and publishing: 20

Telecoms: 19

Education: 14

Real estate/leasing: 13

Other: 38

Size (by employees)

50-499: 41

500-2,499: 56

2,500+: 55

Data stored on premise

200-499 Terabytes: 48

500-999 Terabytes: 45

1+ Petabytes: 59

Job role

C-Suite Exec: 27

VP/Senior VP: 28

Senior Director: 24

Director: 21

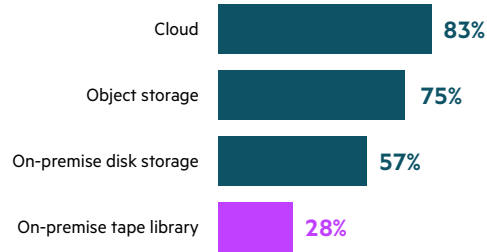
Senior Manager: 16

Manager: 21

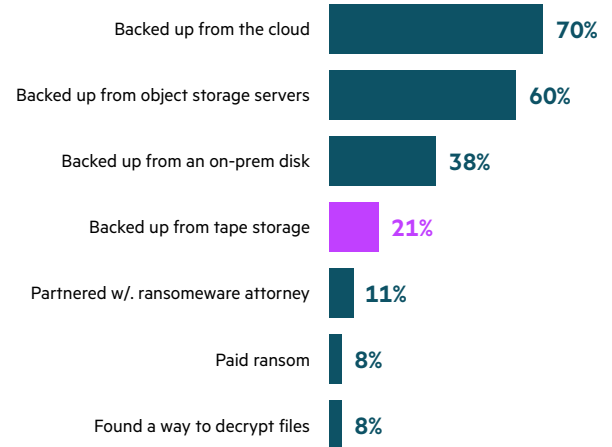
Other: 15

Tape was rarely used by this audience compared to the cloud or object/disk storage

Backup methods used before attack

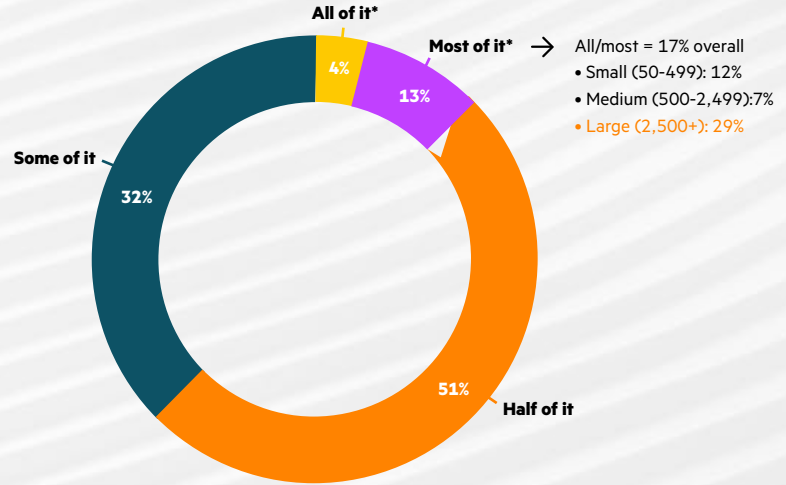


Methods used to recover data



Proportion of mission critical data threatened

Ransomware attacks threaten a significant amount of company data, especially among large businesses

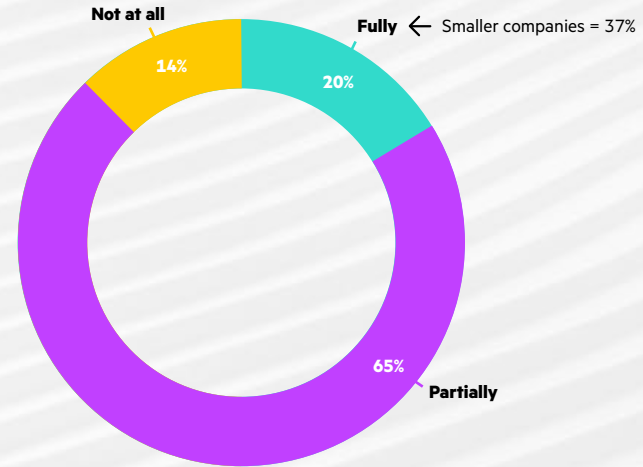


Q14: What proportion of your on-premise data is mission critical?

By mission critical, we mean you would need urgent access/recovery to it following a ransomware attack. N: 152

Attack 'success'

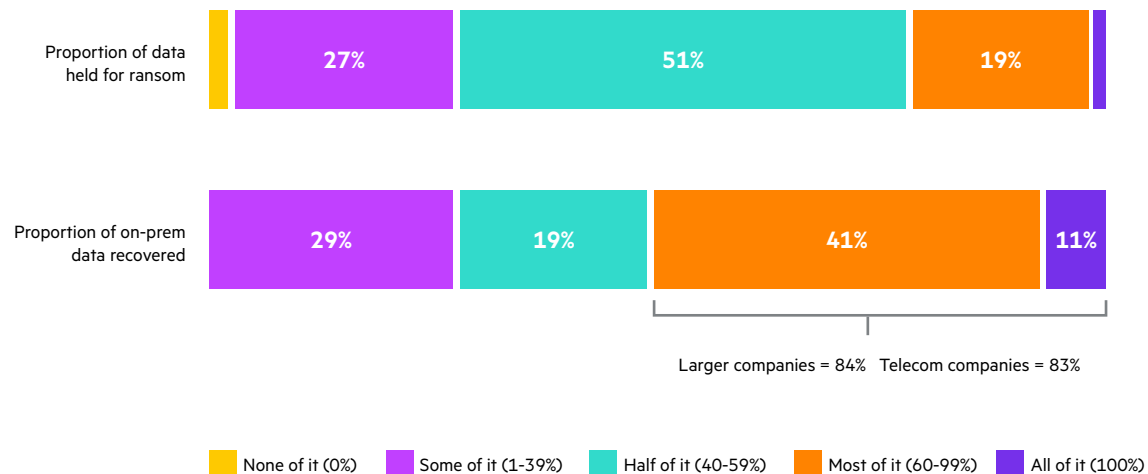
Most attacks are partially or fully successful, especially among smaller businesses



Q21: To what extent was the attack successful? N: 152

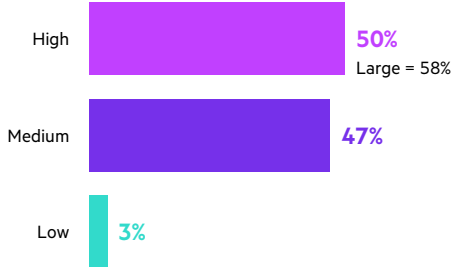


And as a result, around half of data can be held to ransom, although most of it gets recovered

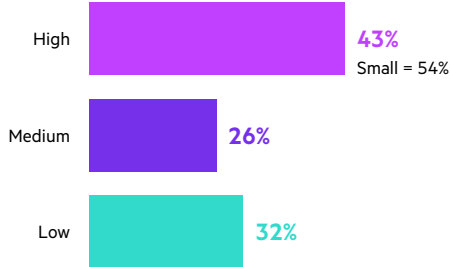


Despite all this potential risk, many are confident of their defenses and aren't prioritizing improving them

Level of confidence in cybersecurity defenses



Priority to improve ransomware defenses



High priority

“It will close down function for a few hours, **lowering profits and vital working systems, and will take days to go back up and work normally**, losing money just to secure data.”

“Security is of high importance. **We would lose a lot of market credibility** if we had a highly publicized successful attack.”

“**The day-to-day operations** of the business **would be crippled without access to accurate financial records** such as receivables, payables, and payroll records.”

“We have a lot of sensitive information on our database, and **we can’t afford to lose it.**”

Low/medium priority

“Our **security systems are solid**, and we are **constantly updating our software and tools.**”

“Our organization **has automated threat detection** in place to increase our chances of protection.”

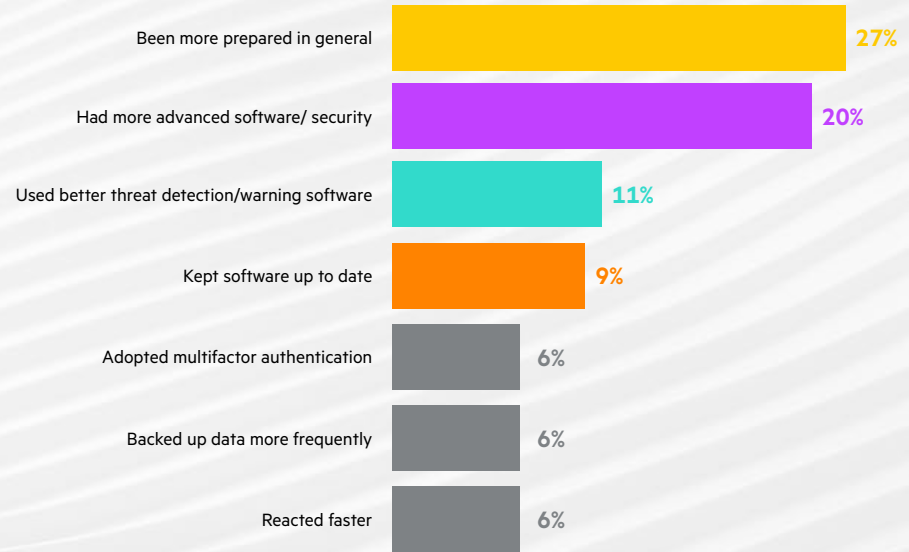
“We **have an offline database of all records**, so it is a low priority.”

“We **have good existing measures in place**, but there is still some room to improve.”

“We are pretty confident in what we have now, but also realize things change quickly and **we want to be prepared.**”

When they reflect on what went wrong in their past attack, they often focus on the role of software/ processes, not hardware/tape

What they could have done differently to get a better outcome



“We **should have implemented something way earlier.**”

“Used **more advanced software.**”

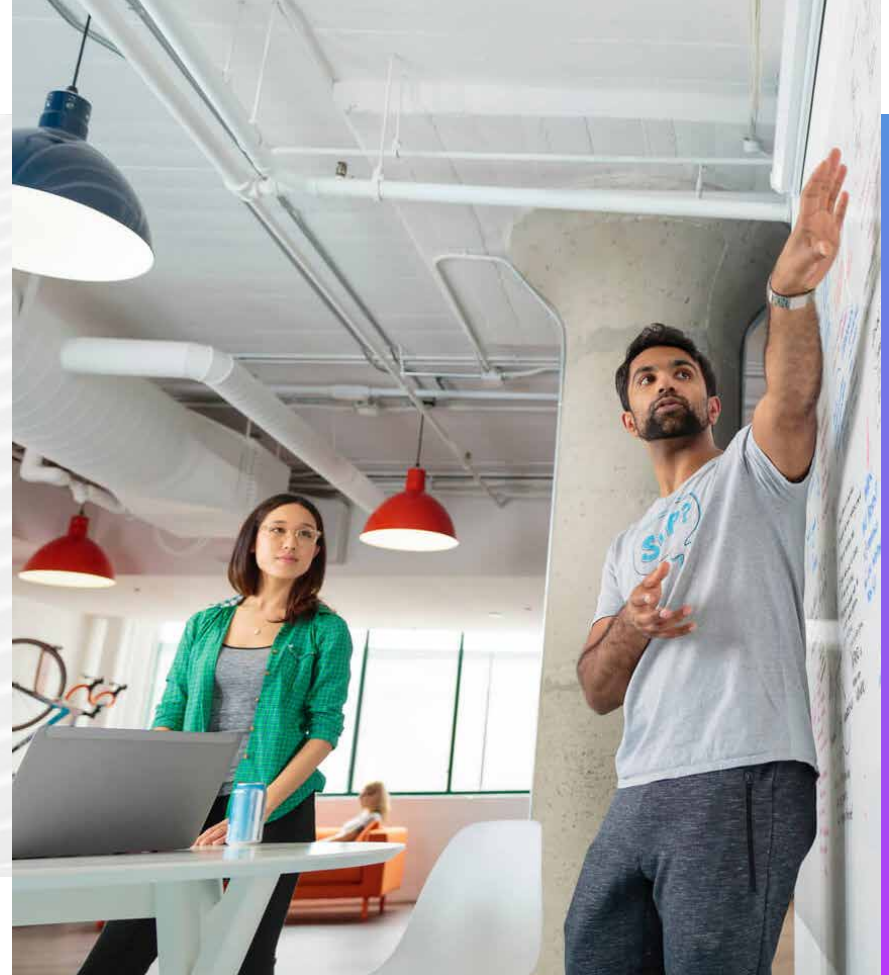
“Security tools need to be enhanced to provide a **better warning at the time of the attack.**”

“Could have **kept our software up to date** and can also use **better threat detection.**”

“For better results, we can **embrace multifactor authentication** for our users and **maintain our software updates.**”

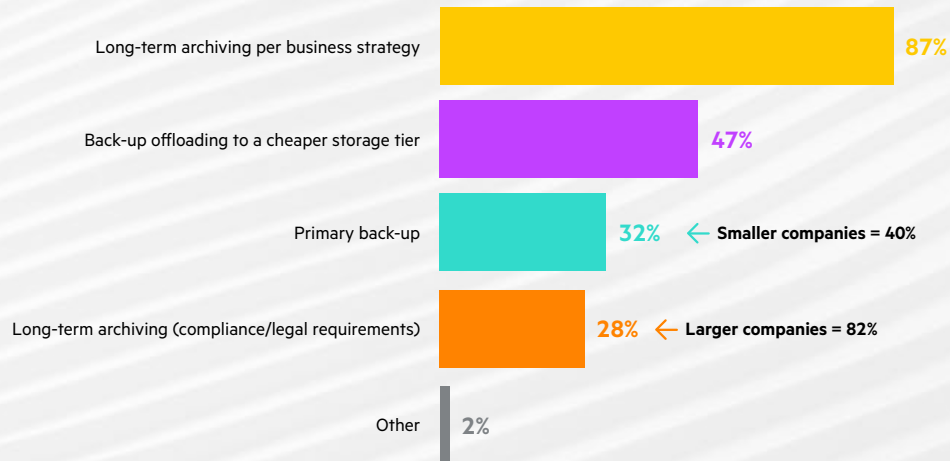
“Secure systems before, **backup data to cloud** more frequently.”

“We needed **more security and faster responding.**”



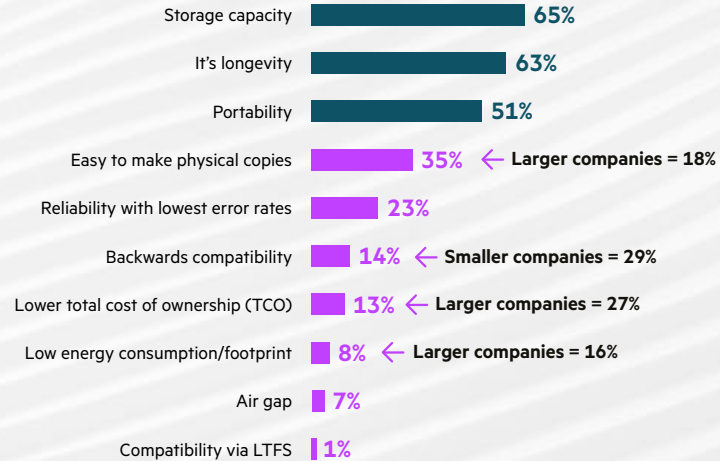
**Current tape users
tend to leverage tape
for its archival role
but also for backup
applications**

Reasons for using tape storage



Perceived benefits of tape storage

And while decision-makers are aware of many of tape's strengths, the benefit of air gap is yet to be fully realized



“Unlike other storage options, tape storage is **longer lasting and more reliable.**”

“Tape storage has the **lowest error rates**, which makes **it more reliable and protects our data from attacks** far more than other storage devices.”

“For the **prevention of further ransomware attacks** and for **keeping all our important data safe and secure.**”

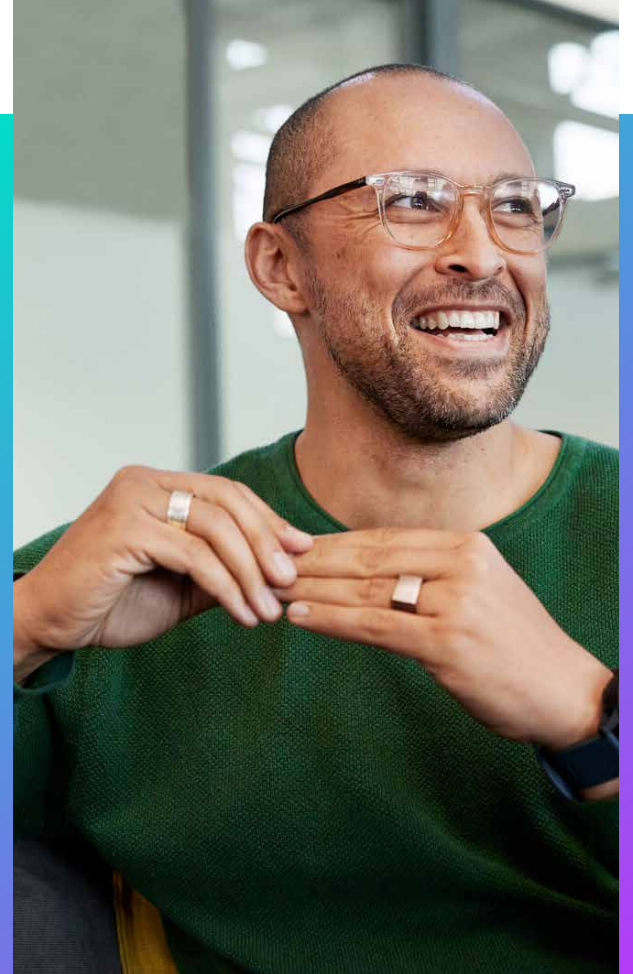
“To provide **additional security**, and it is **easy to make physical duplicates** for our day-to-day activities.”

“To **keep data more safe and secure**, and also they **provide high storage capacity.**”

“Tape storage is the **most secure** and easy way to **protect the data from future attacks.**”

“Their **low cost and improved portability** would be the primary reasons for choosing them.”

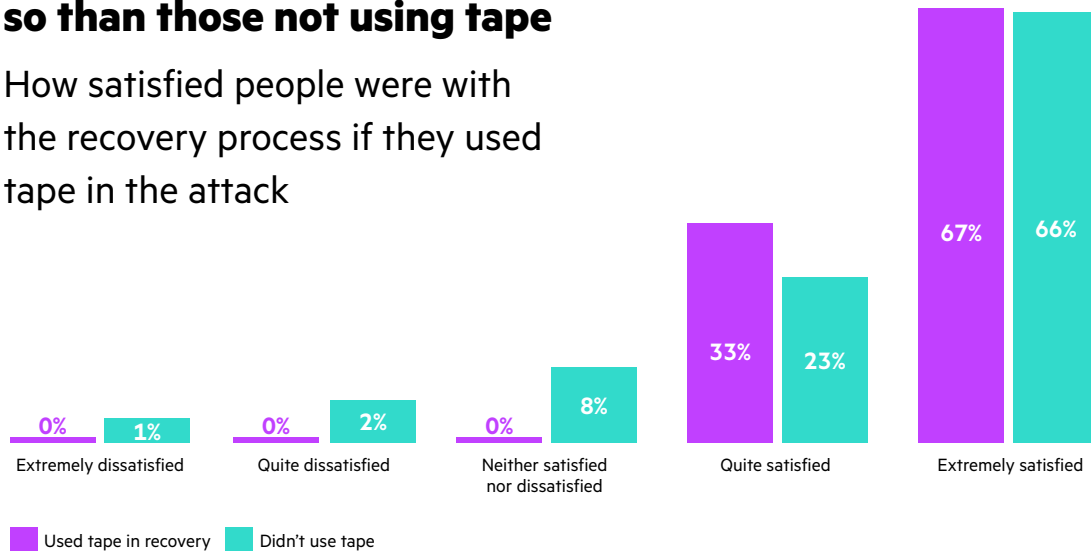
“In comparison with cloud backups, tape storage is **more cost-effective.**”





And those using tape in the recovery process were extremely satisfied with it, even more so than those not using tape

How satisfied people were with the recovery process if they used tape in the attack



Key Statistics

68%

of businesses say that the majority of their on-premise data is mission critical.

86%

of businesses who've experienced a ransomware attack in the last two years say that it was partially or fully successful and required recovery.

29%

of businesses who've experienced a successful ransomware attack say that they recovered less than half their data.

49%

who've experienced a successful ransomware attack say it took longer to return to normal than they can survive without mission critical data.

55%

of businesses who've experienced a ransomware attack in the last two years didn't add any new technologies to their ransomware defenses.

100%

of businesses we spoke to who'd used tape to recover their data without a ransom said that tape played a significant part in them not needing to pay the ransom.

100%

of businesses who used tape to recover their data were satisfied with the outcome of the recovery process (compared to 89% of businesses who didn't use tape). 67% were extremely satisfied.



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