



BELGIAN SOVEREIGN OBJECT STORAGE · MSP BRIEFING 2026

Unbreakable by design

Backup immutability, DR strategy and post-quantum security, plus how MSPs unlock 100% predictable €/TB pricing with zero egress fees.

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THE NEW REALITY

Attackers go for the backups first

94%

of ransomware victims saw attackers try to compromise their backups

57%

of those attempts succeeded

28%

of ransomware-hit organisations fully recovered all affected data in 2026

Median recovery cost is 8× higher when backups are compromised: € 3M versus € 375K.

THE NEXT 30 MINUTES

Four questions for every backup design

01 · IMMUTABILITY

Can it be deleted?

By an attacker who holds your admin credentials.

02 · DISASTER RECOVERY

Can you restore it fast?

Clean, and within the RTO you sold.

03 · POST-QUANTUM

Will it stay secret?

Backups retained today must hold until 2035 and beyond.

04 · ECONOMICS

Can you price it?

For a five-year contract, without egress surprises.

01 • IMMUTABILITY

Can it be deleted?

Assume the attacker already holds your backup admin credentials. What still stands?

Immutability has moved up the stack

GENERATION 1

Air gap

Tape, rotated disks and offline copies. Physically out of reach.

Weak spot: slow restores, manual handling, rarely tested end to end.

GENERATION 2

Immutable repositories repositories

Linux hardened repository, **S3 Object Lock**. No delete until retention ends.

Weak spot: a compromised control plane, root account or cloud tenant.

GENERATION 3 · NOW

Zero-trust data resilience

Assume breach. Backup software and storage live in separate trust domains.

In practice: immutability everywhere, hardened environments, verified clean restores.

Attack the controls, not the data

What the attacker does	What still stops them
Deletes restore points with stolen admin rights	MFA, a separate backup identity, four-eyes approval
Shortens retention or removes the lock	Compliance-mode Object Lock: no one can shorten it, not even the provider
Takes over the storage or cloud account	Lock enforced by the storage itself, under a jurisdiction you control
Encrypts or wipes the backup server	Eg. Hardened Veeam Software Appliance (v13), repositories that survive a rebuild (offsite & immutable)
Plants malware that returns on restore	Inline malware detection, SureBackup, clean-room restore

Six questions for your storage provider

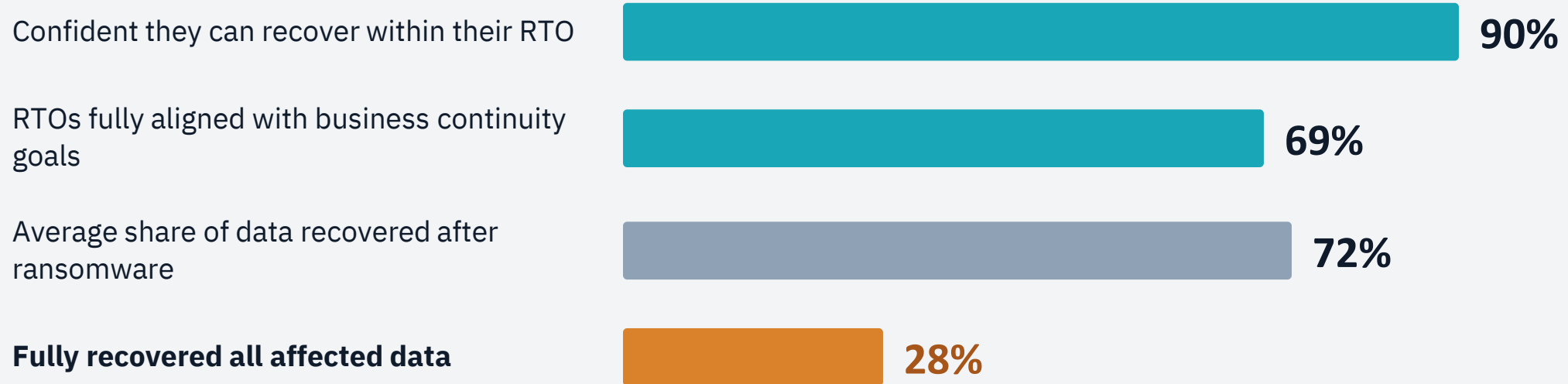
- ✓ **Object Lock in compliance mode?**
Governance mode can be lifted by a privileged account.
- ✓ **Where is my data, under which law?**
Storage location and jurisdiction written into the contract.
- ✓ **Which certificates cover the site?**
ISO 27001, ISAE 3402, Uptime Tier level ? Ask to see them.
- ✓ **Can anyone shorten my retention?**
Including the provider's own staff. The right answer is no.
- ✓ **What does a 50 TB restore cost?**
In euros and in hours. Egress and bandwidth set your real RTO.
- ✓ **Can I visit the datacenter?**
If you can't walk in, you can't fully audit it.

02 • DISASTER RECOVERY

Can you restore it fast?

Clean, complete, and within the RTO written in your customer contract.

Confidence is not recovery



Full recovery reached **40%** where security budgets grew, and only **16%** where they did not.

A restore is a physics problem

Time to move 50 TB back, at full line rate

Link to the backups	50 TB restore
1 Gbps internet line	111 h · 4.6 days
10 Gbps	11.1 h
25 Gbps	4.4 h
100 Gbps cross-connect	1.1 h

Theoretical minimum. Real throughput is lower once protocol overhead and storage limits apply.

AND THEN THE INVOICE

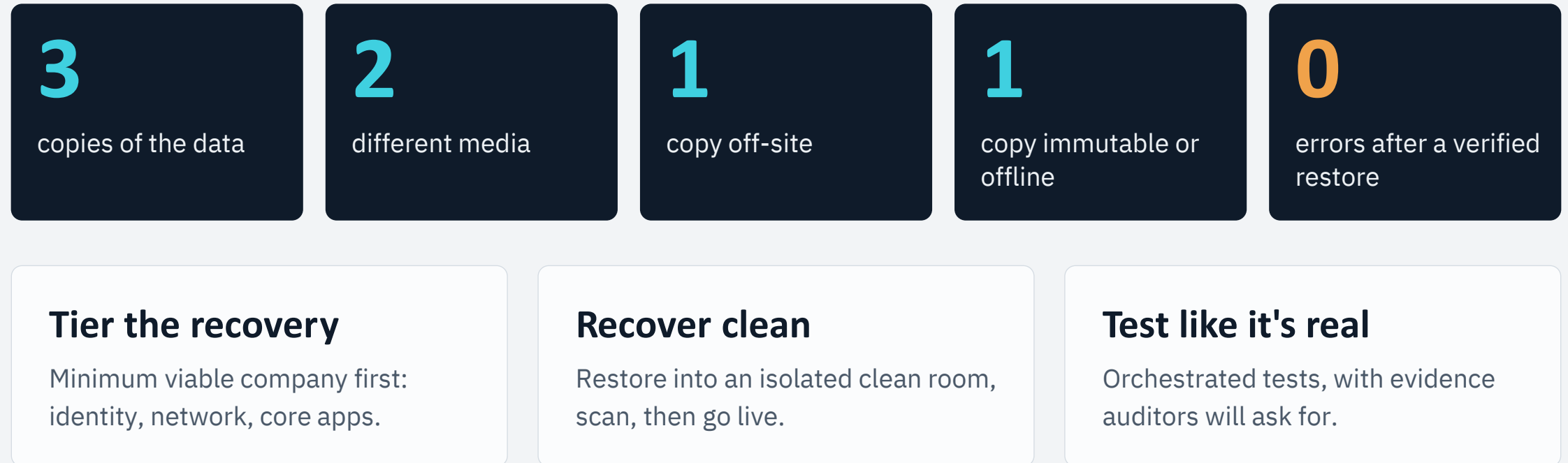
≈ € 4,400

internet egress to pull 50 TB out of AWS S3 at list price, on the day you can least afford a surprise.

Restore distance and egress fees are design choices. Make them before the incident.

50 TB = 4×10^{14} bits ÷ link speed · AWS S3 egress tiers €0.09 / €0.085 per GB

A DR plan that holds in 2026



Regulators now want it in writing

NIS2 · BE LAW 18 OCT 2024

Art. 21(2)(c)

Business continuity, backup management, disaster recovery and crisis management. Point (d) adds supply-chain security.

Medium and large MSPs are in scope.
Fines up to €10M or 2% of turnover.

DORA · SINCE 17 JAN 2025

Art. 12 and 30

Art. 12(3): restore onto systems physically and logically segregated from the source. Art. 30(2)(b): contracts name the storage location.

Applies to financial entities and the ICT providers that serve them.

CCB · BELGIUM

18 April 2026

First conformity-assessment deadline for essential entities: CyberFundamentals, ISO 27001 or inspection.

Your customers' auditors will ask where the backups live.

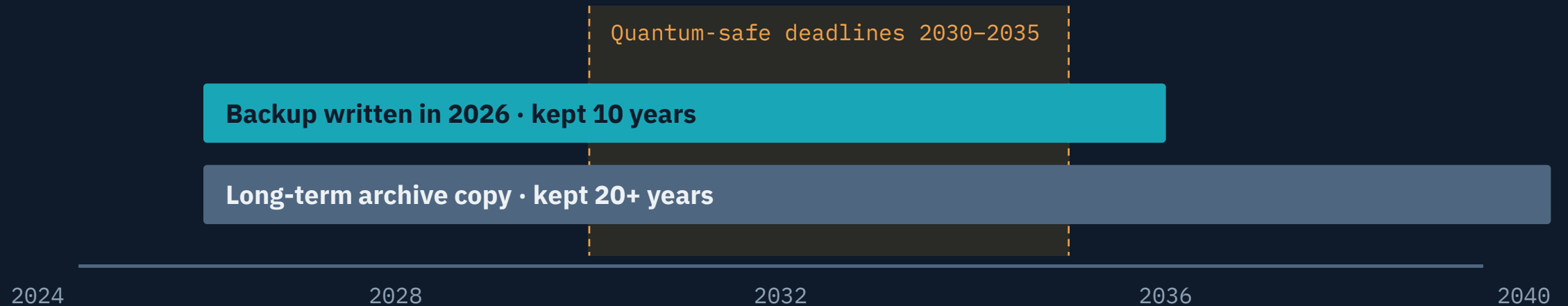
Storage location and segregation are now audit evidence.

03 • POST-QUANTUM SECURITY

Will it stay secret?

The backups you write today may outlive the public-key cryptography that protects them.

Harvest now, decrypt later



Mosca's rule: if retention plus migration time is longer than the time until a quantum computer can break RSA and ECC, the data is already at risk.

Anyone who copies encrypted backup traffic or storage today can keep it and decrypt it later.

What breaks in a backup chain

Layer	Typical today	Under quantum attack	What to do
Data at rest	AES-256	Holds (about 128-bit strength left)	Keep AES-256, retire AES-128
Data in transit	TLS with RSA or ECDHE key exchange	Breaks, and can be harvested today	Hybrid ML-KEM (FIPS 203), private links
Keys	RSA key wrapping in the KMS	Breaks	Key inventory, crypto-agile KMS
Integrity	RSA or ECDSA certificates and signing	Breaks	ML-DSA (FIPS 204), SLH-DSA (FIPS 205)

The weak spot is the path to the data.

The clock is already running



START NOW Inventory the crypto in your backup chain, choose crypto-agile tools, and keep backup traffic off paths that can be harvested.

04 • ECONOMICS

Can you price it?

One €/TB figure for the full contract term, with no egress fees on restore day.

Five variables on one storage bill

Storage capacity	€0.023 / GB-month
Egress to the internet	€0.09 / GB
PUT, COPY, LIST requests	€0.005 / 1,000
GET requests	€0.0004 / 1,000
Minimum storage duration	90 days (Wasabi)

WHY BACKUP FEELS IT MOST

At 1 MB blocks, 100 TB is about **100 million objects**, roughly € 500 in PUT requests for one initial seed.

Every restore test and every real restore adds egress.

Four of five lines depend on behaviour you cannot forecast for five years.

Buying your own disks is no safer

+90–95%

DRAM contract prices in a single quarter, 1Q26

+53–58%

Enterprise SSD prices in the same quarter

+46%

HDD prices since Sept 2025. Western Digital sold out for 2026

+30–50%

Hetzner price rise across its portfolio, April 2026

IDC expects no relief before the end of 2027.

One variable instead of five

TB stored × €/TB = your bill

Ingress €0

Egress €0

100% hot storage, no retrieval fees

No hidden fees

Up to 70% below major cloud providers

For an MSP: quote one €/TB price for the full contract term, and restore day costs the same as any other day.

05 • THE PARTNER

Built by people who run backup

A proven track record, a Tier IV home in Belgium and a price you can sign for.



Cubixion
N O B L A C K B O X

A track record built on Data Resiliency

INTEGRI	co-founded Belgian MSP built around data protection,
	Veeam ProPartner Award: Belux Project of the Year Sole VASP Partner in Belgium
CHERRIIS	Sovereign Microsoft 365 backup management portal for MSPs
MAY 2025	VCSP Platinum partner - Pb scale protection services
NOV 2025	Cubixion launches: Belgian sovereign S3 object storage

4x

Belgium first

Sovereignty at all aspects

Belgian Datacenters

Redundant links

Own hardware, own management portal

In-house development

Sovereign, certified, compatible

Tier IV

Uptime Institute constructed facility, the first in Belgium (Antwerp)

ISO 27001

Information security management, 2022 edition

ISAE 3402

Independent assurance on operational controls

PCI DSS

Payment card industry security standard

The platform

S3 API with Object Lock · 100% hot storage with erasure coding · IAM, MFA, SSO · encryption in transit and at rest · data in Belgium, geo-redundancy in Germany

Works with

Veeam · NAKIVO · Acronis · Commvault · Rubrik · MSP360 · Cherriis, plus direct links into your own datacenter

BACK TO THE FOUR QUESTIONS

Four questions, one partner

01 • CAN IT BE DELETED?

Object Lock on storage outside your backup domain, under Belgian and EU law.

02 • CAN YOU RESTORE IT FAST?

Hot storage in a Tier IV datacenter, with direct links to your infrastructure.

03 • WILL IT STAY SECRET?

Data stays in Belgium, encrypted, on private paths that keep it off the public internet.

04 • CAN YOU PRICE IT?

One €/TB price. Free ingress and egress, no hidden fees.

Built and run by the specialists, in Belgium.

NEXT STEP

Put us next to your current quote



1

Send your last storage renewal quote or your TB volume. You get a side-by-side.

2

Start with one workload: a capacity tier or a backup copy job in Veeam.

3

Visit the Tier IV datacenter and see where your data lives.

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