

SOVEREIGN MEMORY AND GOLDEN RECORDS

Protect the records that define you.

After a quiet attack, which backup can you trust?

DNA Shield keeps a known-good version offline in DNA, where nothing can touch it.

WHY THIS MATTERS

Some records describe the organization itself: the structure and core settings of its directory and networks, and for public bodies, founding texts, official registers and cultural archives. Modern backups, disaster recovery sites and digital archives cover most risks. But attackers can change settings quietly for months before they strike, and official records must outlast every system.

GAPS CAN REMAIN

Knowing which backup is clean

Recent backups may carry the attackers' changes.

Being locked out of your own tools

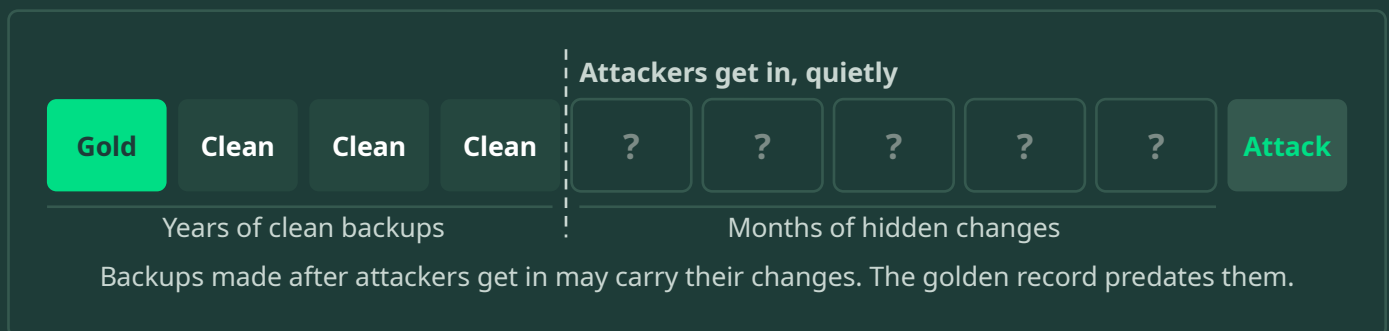
The accounts you need to recover may fall too.

Outliving every system

Official records must outlast any format or supplier.

WHAT DNA SHIELD DOES

Your team exports the golden records from a known-good state. You encrypt the package, and DNA Shield writes it once into DNA. When you need it, we read it back, and you rebuild from a version you can trust. It takes time. It is not instant. For records you rarely need but can never lose, that does not matter.



WHAT WE PROTECT

- Directory structure and core settings
- Start-up and reset settings
- Official registers
- Core network routing
- Founding texts
- Digital masters of cultural archives

100 KB to 1.5 MB
typical package size

Air-gapped
offline by design

Written once
no remote changes

0
energy used at rest

HOW IT WORKS FOR YOU

1

Capture

Export the golden records from a known-good state.

2

Encrypt

You encrypt the package and create its fingerprints.

3

Store in DNA

Written once, sealed and kept offline in a vault.

4

Rebuild

We read it back, and you rebuild from a version you can trust.

WHAT CHANGES

	Today	With DNA Shield
Where the golden copy is	On the network the attackers control	Offline, in a vault
If attackers were inside	Recent backups may carry their changes	Written before, unchanged
When admins are locked out	Recovery tools may be out of reach	Outside every system
Over decades	Formats and suppliers change	Readable, with no migration

NO NEW DEPENDENCY Your recovery still works without DNA Shield. Biomemory will hold the codec in escrow, so your data can be decoded even if Biomemory no longer exists, and will follow the SNIA DNA Data Storage Alliance standards.

WHO IT IS FOR

Government and public bodies

National archives and libraries

Defense and security

Critical infrastructure

Large enterprises and banks

Culture and heritage

Usually led by the Chief Archivist, or the CIO and CISO.

THE RULES THAT ALREADY ASK FOR THIS

 **NIS2, Article 21** crisis management

 **NIST SP 800-53** known-state rebuild

 **eIDAS 2** electronic archiving

 **ISO 15489-1** authentic records

 **ISO 14721** OAIS preservation

 **36 CFR Part 1236** federal e-records

DNA Shield supports these controls. It does not by itself make an organization compliant.

Let's protect the records that define you.

Start with an early access pilot: one golden record package, stored in DNA, and one rebuild test.

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AIR-GAPPED | BIOSECURE | IMMUTABLE | 150-YEAR MOLECULAR RETENTION