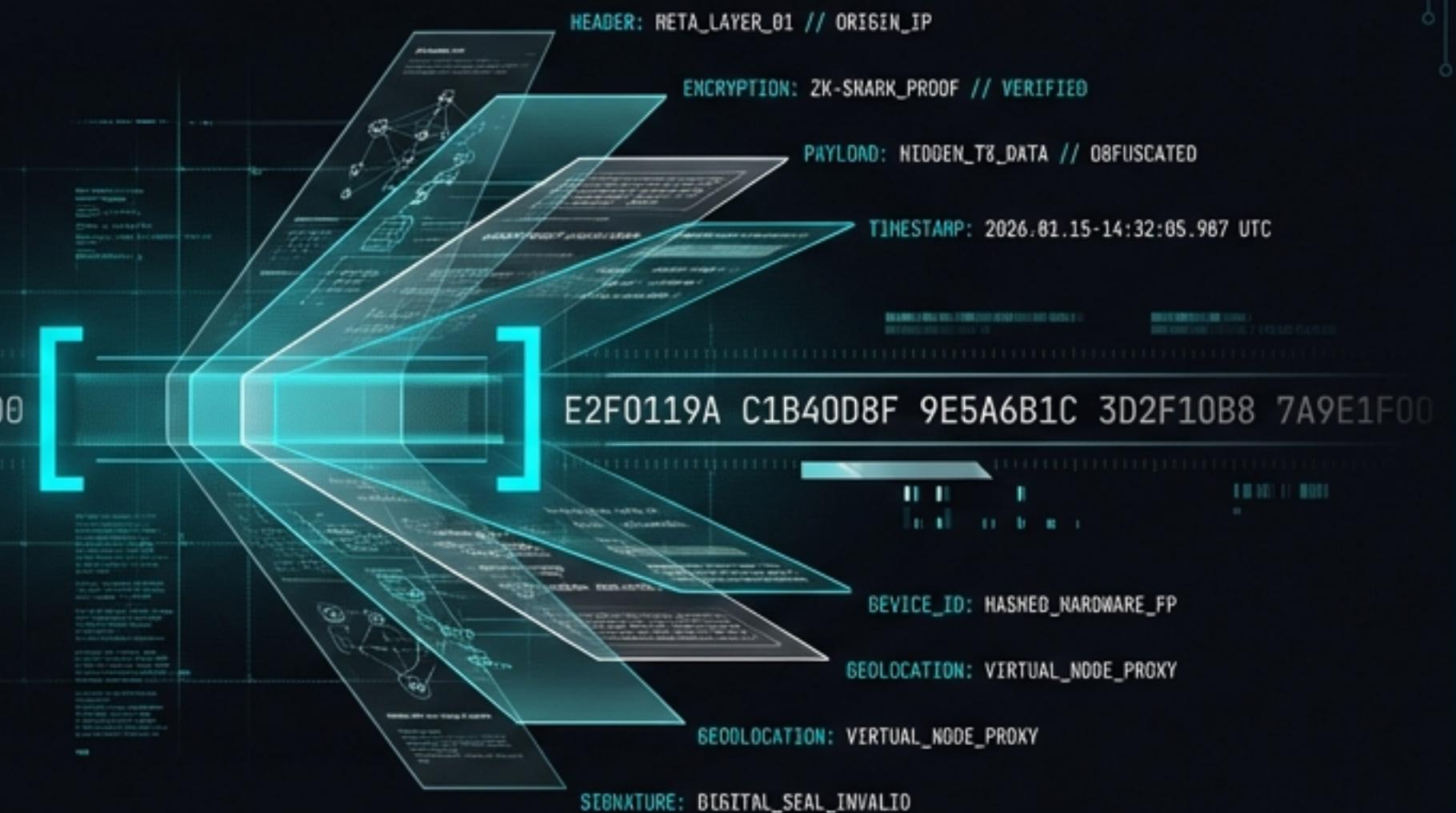


Forensic Data Methodology: The Technical Pillar

Unmasking Financial Obscurity in the
Era of Zero-Knowledge (2026).

01001101 4A7B10C9 E2F0119A C1B40D8F 9E5A6B1C 3D2F10B8 7A9E1F00



THE EVOLUTION OF INDUSTRIALIZED OBFUSCATION (1990-2026)

1990

DIRECT CLARITY

'Smith's Books'

Direct Merchant-to-Bank Link

2000s

INDIRECT MASKING

'Stripe * 82736'

Aggregator Layer Introduced

2010-2020

DELIBERATE MASKING

'Recurring Pymt' / 'Msbill.info'

Shell Companies & MIDs

2024

THE VAU LOOP

PUSH CREDENTIALS

Zombie Charges Follow New Cards

2026

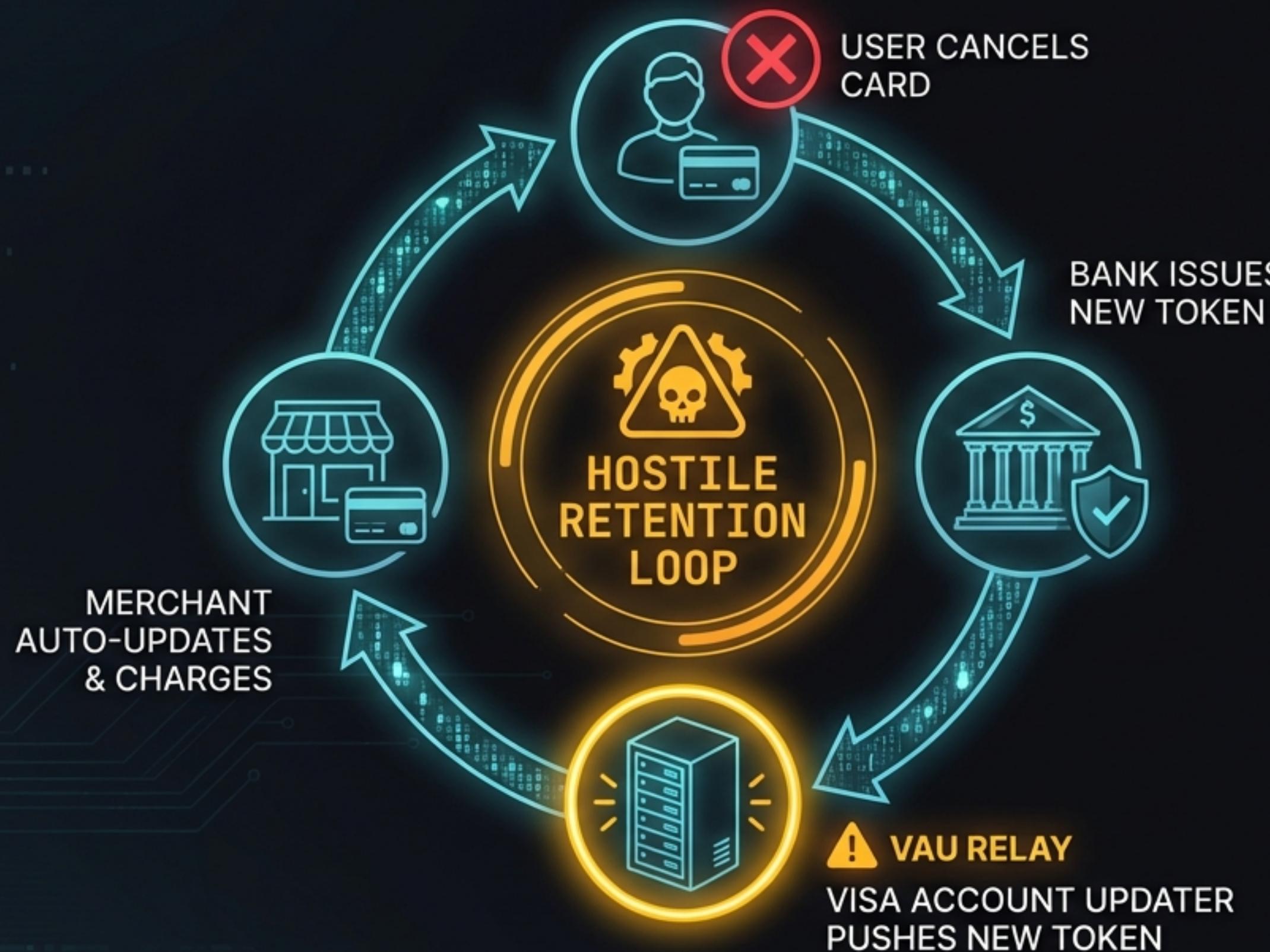
ZERO-KNOWLEDGE RECKONING

EverydaySolver Audit

Mathematical Proof

The history of the billing descriptor is a history of abstraction. We have moved from direct merchant communication to a landscape of 'Mid-Hopping' and generic descriptors designed to lower the visibility of high-churn services and delay the realization of zombie subscriptions.

THREAT MECHANICS: MID-HOPPING AND THE VAU LOOP



KEY DATA POINTS

- **MID-HOPPING:** Merchants use proxy locations (changing Terminal IDs) to avoid regional tax flags or risk-detection algorithms.
- **THE ZOMBIE LOOP:** Digital services no longer request new card numbers; networks automatically push credentials.
- **RESULT:** 34% increase in 'billing masking' fraud reported by banks this month.

DEEP DIVE: ISO 8583 & DATA ELEMENT 43

Exploded View

msbill.info redmond waus

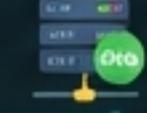
Business Name / Padding

Analyzed for “Padding Artifacts” to hide parent MIDs.



City / Terminal ID

Used to match payment gateway latency against geographic location.



State / Country

Cross-referenced with MCID to detect offshore billing.



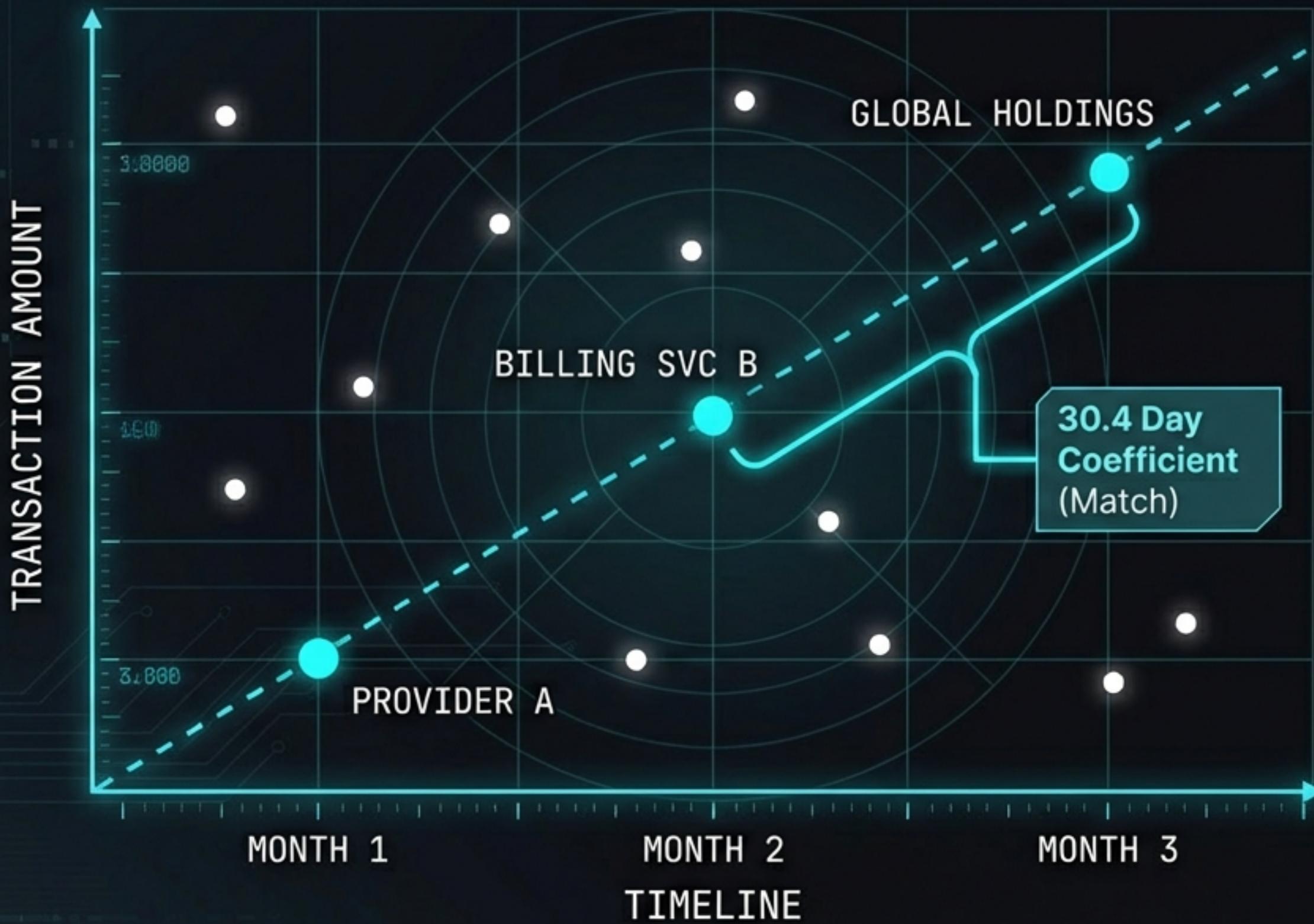
While banking apps summarize this into a simple “Merchant Name,” the forensic scanner parses the raw bitstream. Field 43 is the DNA of the transaction.



ANALYZING...

NotebookLM

THE FREQUENCY ALGORITHM: TEMPORAL CLUSTER ANALYSIS



THE 30.4 DAY COEFFICIENT

- Human subscriptions rarely follow a perfect 30-day cycle due to banking holidays. Our V4.2 algorithm identifies clusters that maintain a consistent cycle regardless of descriptor text changes.
- **DARK PATTERN DETECTION:** Catching charges that deliberately avoid the 'Recurring Flag' metadata.

CASE FILE A: UNMASKING 'CHASE RECURRING PYMT'

Descriptor:

"CHASE RECURRING PYMT"

Is it a Round Number?
(€10.00, €50.00)

Legacy Utility?

Is it a Cents Value?
(€14.99)

INTERNAL SWEEP

Overdraft Protection or
Liquidity Engine.

LEGACY ACH

Direct Debit Handshakes.

THE AGGREGATOR

Fintech/Subscription (Hulu,
Netflix) hiding behind the
Chase bridge.

INSIGHT: "Chase Recurring" is a legacy bridge descriptor. If the amount is a round number, it is statistically likely to be an internal sweep. If it carries a cents value, it is a merchant.

CASE FILE B: AMAZON MARKETPLACE CLEARINGHOUSE

MCC 5942 (Retail)



- **Type:** Physical Goods / Book Stores
- **Behavior:** Settlement matches warehouse exit signal
- **Latency:** 48–72 hours (Weekend charges for weekday buys)

MCC 5735 (Digital)



- **Type:** Digital Media / Record Shops
- **Behavior:** Tokenized pulls (Kindle, Prime Channels)
- **Key Marker:** Timestamp is exactly 00:00 UTC. No shipping latency.

90% of unauthorized anxiety comes from MCC 5735—server-side renewals that bypass 2FA because they rely on established vault tokens.

ANALYZING...

CASE FILE C: THE MICROSOFT VAU LOOPHOLE

BITSTREAM REGISTRY

	CODE	MAPPED TO
1	msft * xbox game pass	**Xbox Ultimate** (€10.99-€16.99)
2	msft * / msbill.info	**Microsoft 365** (€6.99/€99.00)
3	microsoft * azure	**Azure API Overages** (Variable)

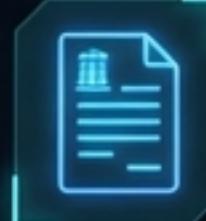
The VAU Problem: Reporting a card lost does not revoke the token. The "Visa Account Updater" pushes new credentials to the Microsoft Treasury.



The Fix: File a "Revocation of Recurring Transfer Authorization" to disable the VAU bridge for this specific Merchant ID.

ANALYZING...

THE LEGAL FRAMEWORK: REG E & GDPR 2.0



REGULATION E - 12 CFR 1005.10

****WRITTEN AUTHORIZATION:**

1005.10(b) demands a signed writing. If the bank can't produce the technical lineage (MCID/TID), the charge is unauthorized.



****STOP PAYMENT:**

1005.10(c) grants the right to stop payment with 3 days notice. Banks claiming "you must contact the merchant" are legally incorrect.



2026 DIGITAL TRANSPARENCY ACT

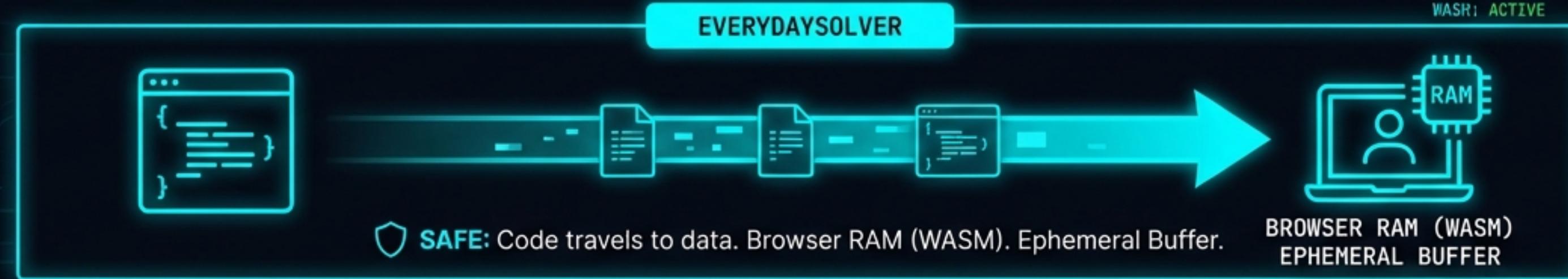
****BILLING DESCRIPTORS:**

Billing descriptors like "Recurring Pymt" without identifiable parent lineage are a violation of "clear and concise" transparency requirements.



YOU HAVE A 'RIGHT TO EXPLANATION'. USE THESE STATUTES TO FORCE THE BANK'S HAND.

ZERO-KNOWLEDGE ARCHITECTURE: THE LOCAL RUNTIME



****CORE CONCEPT**:** SERVER-BLIND ANALYSIS
We utilize the File System Access API and WebAssembly to parse the blob locally.

****SECURITY PROTOCOL**:** ZERO-INCENTIVE TARGET
We cannot be hacked for data we do not possess.

THE PRIVACY STANDARD: ZKDA-2026 COMPLIANCE



ZERO-KNOWLEDGE PROOFS

The engine proves a merchant identity matches a pattern using zk-SNARKs without revealing the underlying PII.



EPHEMERAL SCRUBBING

Recursive scrub protocol revokes pointers within 10ms and forces a RAM garbage collection cycle.



ARTICLE 13 COMPLIANCE

Adhering to strict "Awareness-Only" auditing standards.

ANALYZING...

| CAPABILITY TIERS: RECLAIM FINANCIAL SOVEREIGNTY

POCKET CFO PRO

€59

- For DIY Forensics
- Local browser-based scanner
- Pattern matching library v2026.a
- F43 Decoder for MSFT & Amazon

CONCIERGE AUDIT

€499

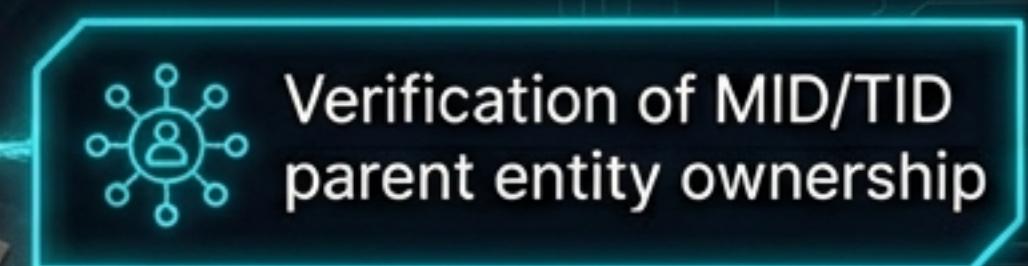
- Expert Intervention
- 20-Page Forensic Technical Dossier
- VAU/ABU Legal Revocation Protocol
- Priority 48-hour turnaround

 4 spots remaining for January 2026

THE CONCIERGE DOSSIER...:::



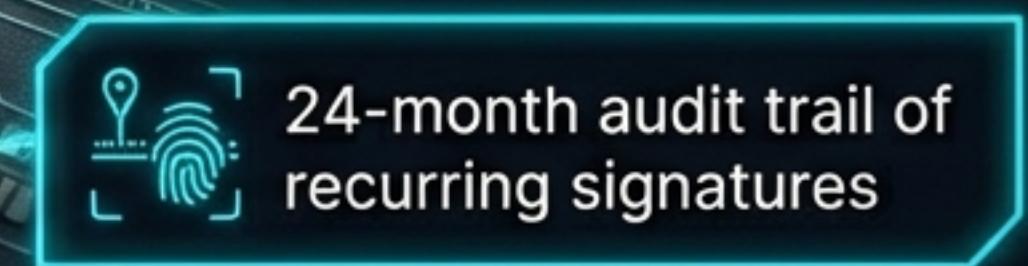
Complete ISO 858 trace logs



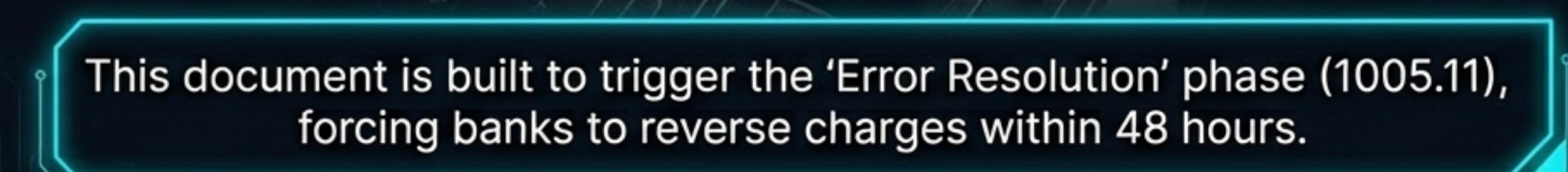
Verification of MID/TID parent entity ownership



Formal legal template citing Regulation E



24-month audit trail of recurring signatures



ANALYZING...



FROM TRUST TO MATHEMATICAL PROOF.

The era of passive acceptance is over. Whether through local scanning or expert concierge intervention, you now possess the forensic capability to unmask the industrialized obfuscation of your finances.

STOP THE LEAKAGE. INITIATE LOCAL SCAN.

everydaysolver.com/local-scan

Runs 100% Locally. Zero-Knowledge Architecture.

ANALYZING