



Tarique Mustafa  
CEO

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**Chorology, Inc.** CEO: "Unlike passive SaaS scanning tools that sample a fraction of data and rely on manual compliance workflows, Chorology's deterministic data intelligence is configure-once and run forever."

governance. Chorology translates deterministic intelligence into a continuous governance system—not a point-in-time scan, but a living data governance engine that continuously discovers, classifies, governs, and protects sensitive data at scale.

Headquartered in San Jose, with operations in Karachi and Dubai, Chorology serves Fortune 2000 enterprises operating in highly regulated industries where data privacy, governance, and compliance are now directly tied to operational resilience and financial risk. The company was co-founded by CEO/CTO Tarique Mustafa, who also leads GCCybersecurity, Inc. Drawing from decades of experience building large-scale cybersecurity systems, Mustafa recognized that traditional data security and compliance platforms were designed for a fundamentally different era, in which data volumes were manageable, workflows were slower, and human-led governance processes could keep pace. That world no longer exists.

AI adoption across enterprises is accelerating the creation, duplication, and sprawl of unknown, unstructured data and information assets across cloud systems, collaboration platforms, AI tools, archives, and

**F**ounded in 2022, Chorology, Inc. was created to address one of the fastest-growing and least understood risks in modern enterprise technology: the inability of organizations to comprehensively understand the sensitive data they have and where it exists across increasingly fragmented digital environments. The company's origin traces back to a roundtable discussion among enterprise CISOs and CIOs who voiced a common concern that has since become central to cybersecurity in the Age of AI:

1. Enterprises cannot secure unknown data (data blind spots) or data and assets they don't understand – such as the 80% of enterprise data that is unstructured, and/or has no known meaning.

2. AI adoption is constrained by data trust - organizations are not limited by AI model capability. They are limited by the trustworthiness of the data feeding those models.

These realizations became the foundation of Chorology's mission to provide deterministic data intelligence because enterprise data security, compliance, and governance require certainty—not probability. Any architecture that cannot guarantee certain, repeatable, explainable classification is architecturally disqualified for enterprise-grade data governance. Chorology's Compliance and Posture Enforcement (CAPE) platform is the foundation of a new data compliance control plane: from data management to knowledge



decentralized repositories. Much of this data exists as “*shadow data*,” often hidden outside the visibility of legacy security systems. Chorology estimates that enterprises today are experiencing data growth rates approaching 60% monthly, with nearly 80% of this data remaining unstructured and difficult to understand, let alone govern, using conventional compliance tools. In this new AI-enabled, digital data landscape, Chorology argues that data risk is becoming financial risk. Sensitive enterprise data now drives regulatory exposure, operational integrity, AI model behavior, AI-enabled margins intellectual property protection, and customer trust. Traditional compliance platforms and workflows, which rely heavily on periodic audits, manual classification, and semi-automated workflows, can no longer keep pace with machine-speed data creation and AI-driven transformation.

According to the company, automating outdated manual processes is no longer enough. The next generation of security and governance platforms must evolve from automated discovery, classification and management (that only see “*data files*”), to knowledge governance with domain language modeling, with semantic comprehension and deterministic intelligence (that see “*meaning*”).

Chorology’s platform offers AI-powered, deterministic data intelligence to complement today’s static DSPM platforms with continuous discovery, classification, mapping and monitoring of sensitive, unstructured enterprise knowledge, in real-time. Rather than treating compliance as

a periodic review exercise of structured data, the company envisions autonomous compliance as a continuous intelligence layer embedded across enterprise infrastructure. Its platform is designed with unparalleled accuracy, scale and speed - through automated reasoning, domain language modeling, data analysis, and dynamic governance capabilities that adapt to rapidly changing enterprise environments.

Still in its early growth phase with confidential beta-stage enterprise deployments, Chorology is emerging as part of a new generation of deterministic intelligence platforms seeking to redefine how enterprises manage trust, visibility, and data security in an increasingly autonomous digital world. Powered by deep-AI domain language models, Chorology transforms enterprise raw data into structured knowledge objects, enabling comprehensive, explainable and deterministic governance across the entire data estate at accuracies above 99.5%.

## **In conversation with Tarique Mustafa, CEO of Chorology, Inc.**

### ***Can you explain your services in brief?***

Chorology is an autonomous, deterministic data intelligence platform powered by patented Deep-AI Domain Language Models and four distinct AI Knowledge Agents™. Chorology deploys these autonomous, self-directing agents — Discovery, Classification, Universal Mapping, and Security Posture Scoring — to collaboratively assess 100% of an enterprise’s data estate:

structured and unstructured, on-prem and cloud, at petabyte scale, across all major regulatory mandates.

- The Discovery Agent autonomously surfaces any sensitive data type in structured and unstructured repositories — on-premises, cloud, SaaS, and shadow IT. If configured to run continuously, sensitive data and knowledge types will be surfaced the moment they appear, managing a living, current inventory of sensitive data.
- The Classification Agent applies deep domain and knowledge intelligence to classify any sensitive asset across unlimited data and knowledge object types, for any regulatory mandate: GDPR, HIPAA, PCI-DSS, CCPA, DORA, NIS2, and even custom frameworks.
- The Universal Mapping Agent continuously traces data pathways, access entitlements, and regulatory obligation chains across hybrid environments, producing the comprehensive data map that DPOs and CISOs have always needed but could never maintain.
- The Security Posture Scoring Agent synthesizes all data intelligence into a real-time, multi-framework compliance posture score with prioritized remediation guidance — updated continuously as the environment evolves, not quarterly when an auditor asks.

Unlike passive SaaS scanning tools that only create data visibility by sampling a fraction of (mostly structured) data while relying on manual compliance

workflows, Chorology's agents are configure-once for repository types, and run forever. These agents autonomously discover, classify and map the locations of unknown data and knowledge types, automatically posture-scoring them for regulatory compliance across multiple mandates at the same time (GDPR, HIPAA, PCI-DSS, CCPA, DORA, and beyond). Because the platform is deterministic, Chorology's agents enable always-on, actionable data intelligence and posture scoring so that enterprises can "*Know Their Data. Always*". Chorology was founded by security veterans from Symantec, Trend Micro, IBM, McAfee, and Cisco.

**Your CAPE™ platform uses a proprietary “Domain Language Model” for data security. How is this different from traditional approaches, and why does it deliver superior accuracy and speed?**

Chorology is redefining data intelligence, compliance, and security posture management for the Age of AI. Where legacy DSPM tools scan a fraction of data using probabilistic algorithms to estimate data meaning and hand the resulting issues back to overwhelmed human teams, Chorology's platform deploys a Domain Language Model (DLM) with "*domain ontologies*" that are capable of understanding in real-time, the meaning of

data and knowledge objects containing data, and verifying their meanings across different domains in a single data scan.

To achieve greater than 99% data understanding, fully automated data intelligence tools need to be deterministic based. Being 80% confident that a piece of data is a social security number, or a data record is a customer's medical record or a string of digits discovered is an American Express Card number - is not sufficient for regulated industries like financial services, healthcare, insurance, government, or defense.

Unlike Large Language Models whose probabilistic-based-models can confuse terms like Mustang a horse and Mustang a car with 350 horsepower, Chorology's deterministic domain language model understands the meaning of structured and unstructured data and correctly classifies it across different domains of knowledge. When ontologies are used to determine data "*meaning*" and verify the data meanings using data verifiers - very high classification accuracy follows. This form of fully patented, deterministic Deep-AI technology ensures that knowledge objects such as medical records (HIPAA compliance) will never be confused with financial records (PCI compliance) or customer records (PII compliance) – despite each type of record having the token "*record*" in common and the same customer's name in each record.

With data meaning at high certainty, Chorology's fabric of four autonomous, self-directed

Knowledge Agents™ — can then work collaboratively, and without manual intervention across every corner of the data estate with the highest accuracy, speed and scale available because hallucinations and confusion across domains is eliminated.

The benefits: Chorology operates at petabyte-scale while delivering military-grade data accuracy by autonomously scanning 1 TB in-memory in record time, with no LLM training overhead or data sampling. For enterprise IT and cybersecurity leaders responsible for protecting sensitive data and managing regulatory compliance in the Age of AI, Chorology delivers on the promise of always knowing your data with few data blind spots – even in complex, unstructured environments.

**Non-compliance carries significant financial, regulatory, and reputational costs. What is the single biggest compliance pain point you see enterprises struggling with today?**

We spoke with a roundtable of CISOs and CIOS. Their biggest pain point is data blind spots in unstructured repositories. Most CISOs say "*I don't know what sensitive data I have or where it is located. I can't protect sensitive data I don't know I have.*" 80% of today's enterprise data is unstructured and its volume and sprawl from shadow data are growing exponentially. Legacy platforms can only sample enterprise data environments.

By the time their processes know about a data breach it is too late – the data is already gone.

**Testimonials mention narrowing “the gap between regulatory mandates and business practicality.” How does Chorology make compliance less burdensome for security teams?**

Chorology is the first auto-deterministic data intelligence engine that can automate manual IT workflows to discover, classify, map and score sensitive data. Regulatory mandates in the US and UK are outpacing enterprise’s ability to implement data compliance and security practices that are only semi-automated. For a large prospect like OneSpan with thousands of customers,

Chorology can serve as an “AI-engine” that turns manual data compliance and intelligence work into fully automated and scalable AI-powered processes that run as often as they wish. The ultimate benefit to our customers is that data security expenses no longer scale linearly as the business expands its infrastructure during revenue growth. Chorology flattens the total cost of sensitive data ownership – something every enterprise needs in the Age of AI.

**What does the future hold for your company and its customers? Are exciting things on the way?**

We are rapidly expanding Chorology to support channel partners like MSSPs and the cybersecurity practices of global consulting brands such as PWC and Accenture. Our autonomous

deep-AI core represents a paradigm shift in autonomous data intelligence. Enterprises can now know all their data accurately – continuously. Channel partners that understand the value of autonomous data intelligence and compliance, can help their customers reduce the total cost of data ownership dramatically, at increased accuracy – to flatten data risk while scaling their businesses.

In addition, with compliance and data intelligence technologies built into chips, storage companies and clouds, can have our agents running in the background and surface data risks fast - as data is continuously scanned. For providers of identity access management (IAM and CIAM), one exciting possibility is to automatically grant or rescind data repository access privileges as sensitive data is discovered and remediated – again in real-time. 

*“Chorology operates at petabyte-scale while delivering military-grade accuracy by autonomously scanning multi-terabyte data or documents in a fraction of the time, with no probabilistic LLM training overhead.”*

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*Vishnu Kulkarni*

Vishnu Vardhan Kulkarni  
MANAGING EDITOR

