CONCENTRIC

Semantic Intelligence™ Solution with Risk Distance™ Analysis

Data Risk Monitoring and Protection Without Rules or Policy Management

Concentric MIND

Centralized deep learning as-a-service for fast, accurate identification of business-critical data without complex rules or upfront configuration

Risk Distance

Autonomous risk analysis based on peer file comparisons to spot security concerns without rules or end-user involvement

User 360 Analysis

Identify access and usage patterns by account for ransomware and sensitive data protection

Introduction

The Semantic Intelligence™ deep learning solution autonomously protects data by discovering and categorizing structured and unstructured content, identifying business and privacy–sensitive data and finding risk from inappropriate sharing or activity so you can spot oversharing, defend against ransomware and prevent data loss. Our Risk Distance™ analysis compares each file to the baseline security practices in use by each category to autonomously identify risk without the rules and policies other solutions require. Concentric's User 360 capabilities identify inappropriate user activities and unwanted encryption to spot ransomware and proactively prevent data breaches.

Highlights

- Find data wherever it's stored - in the cloud, on-premises, structured and unstructured
- Gain a risk-based view of data and users
- Automated remediation with file and user activity information to instantly fix access issues
- Find risk without rules or formal policies
- Secure SaaS solution, API based, no agents
- No rules, no regex, no policies to maintain
- SOC 2 Type 2 company-wide certification

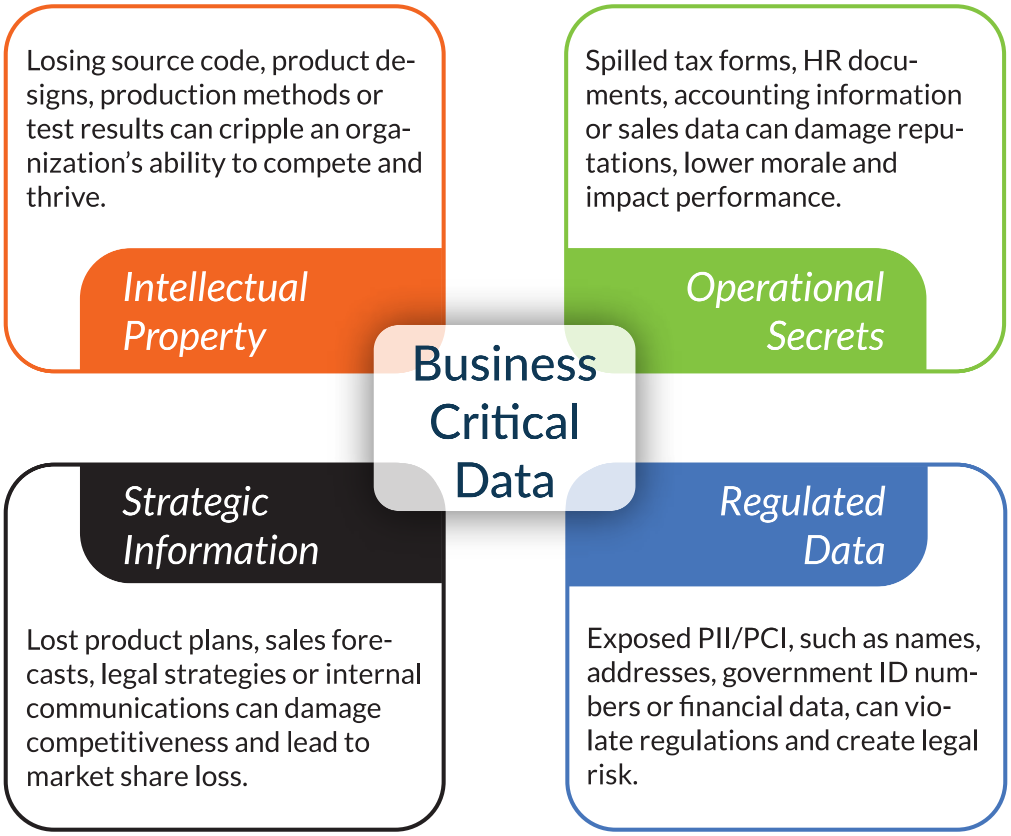
How It Works

Semantic Intelligence™ automates data governance and security for structured and unstructured content. We use deep learning to capture the collective wisdom of content owners to understand security policies without hard-to-maintain rules or end user classification.

Deep learning organizes data into thematic categories that offer content insights into meaning and business criticality. Risk Distance™ analysis uncovers each category's baseline security practices to spot at-risk individual files. Our User 360 capabilities assess risk through a user-centric lens to find activity that can indicate insider threats and unwanted encryption. The solution reveals inappropriate sharing, risky storage locations, ransomware or incorrect classification – all without rules or policy configuration.

> Concentric is an essential part of Cadence's data security portfolio. We use it to identify all our business-critical data – product documentation, finance reports, contracts etc. Concentric gives us a critical layer of data security intelligence on top of the data protection solutions we already use.
>
> ***Sreeni Kancharla, CISO***
> ***Cadence Design Systems***

Semantic Intelligence is a secure SaaS solution with API connections for data intake (cloud storage, internal file servers, databases), and it integrates with other solutions to make them more effective while reducing overhead.



Losing source code, product designs, production methods or test results can cripple an organization's ability to compete and thrive.

Intellectual Property

Spilled tax forms, HR documents, accounting information or sales data can damage reputations, lower morale and impact performance.

Operational Secrets

Business Critical Data

Strategic Information

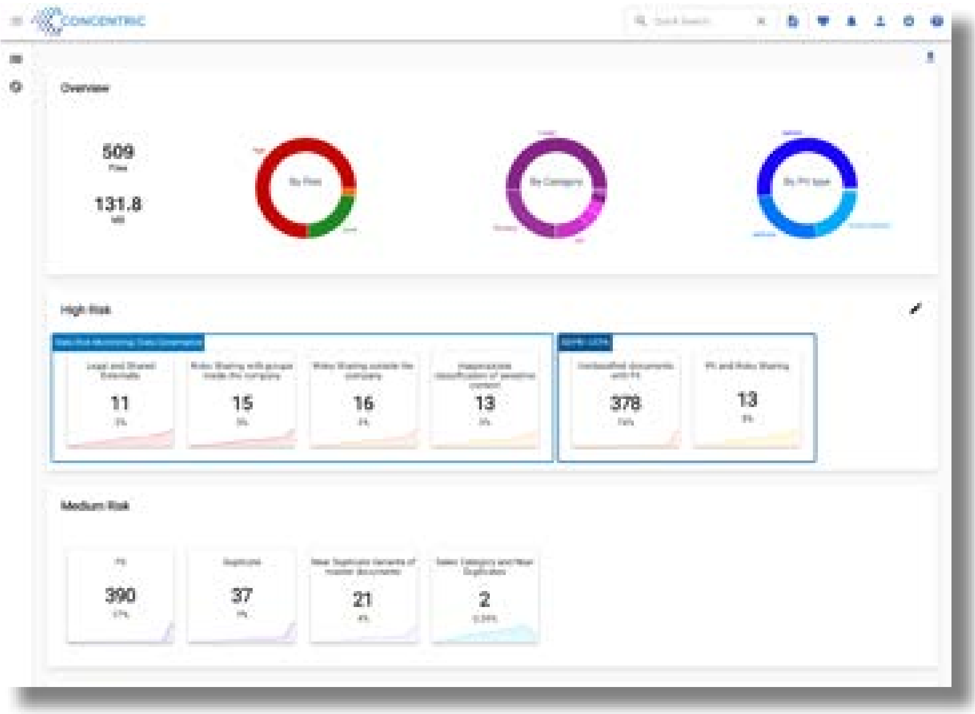
Lost product plans, sales forecasts, legal strategies or internal communications can damage competitiveness and lead to market share loss.

Regulated Data

Exposed PII/PCI, such as names, addresses, government ID numbers or financial data, can violate regulations and create legal risk.

Autonomous Data Discovery

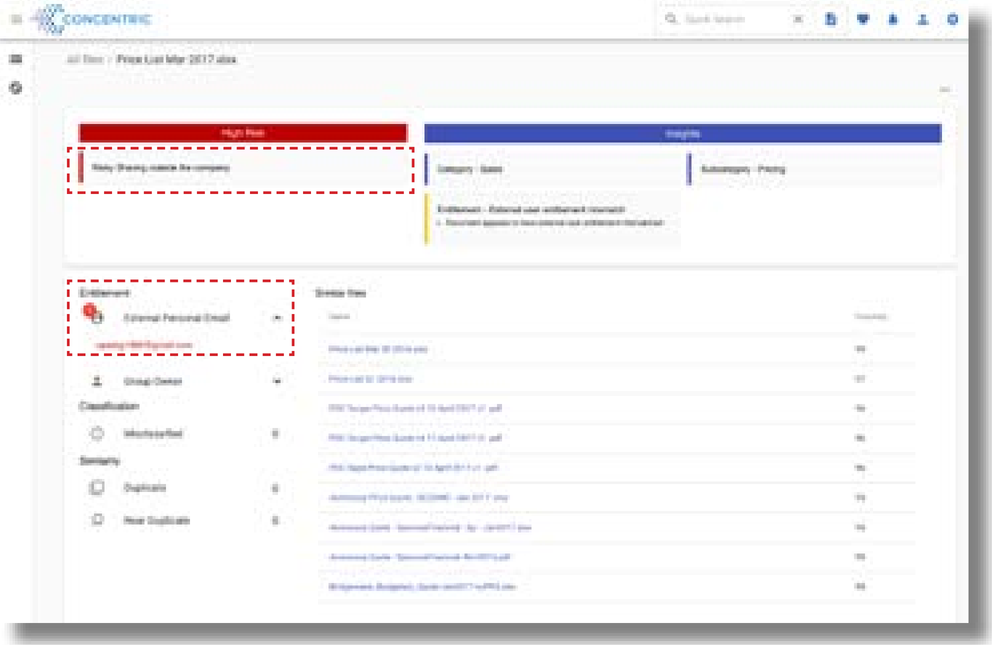
Effective data access governance starts with accurate and continuous data discovery and categorization. Our sophisticated natural language processing capabilities (a type of deep learning) autonomously group data into over 200 categories, revealing privacy-sensitive data, intellectual property, financial information, legal agreements, human resources files, sales strategies, partnership plans and other business-critical information hidden in your structured and unstructured data. We discover and categorize data without rules, regular expressions, user input, or IT staff overhead.



Risk Dashboard

Risk Distance Analysis

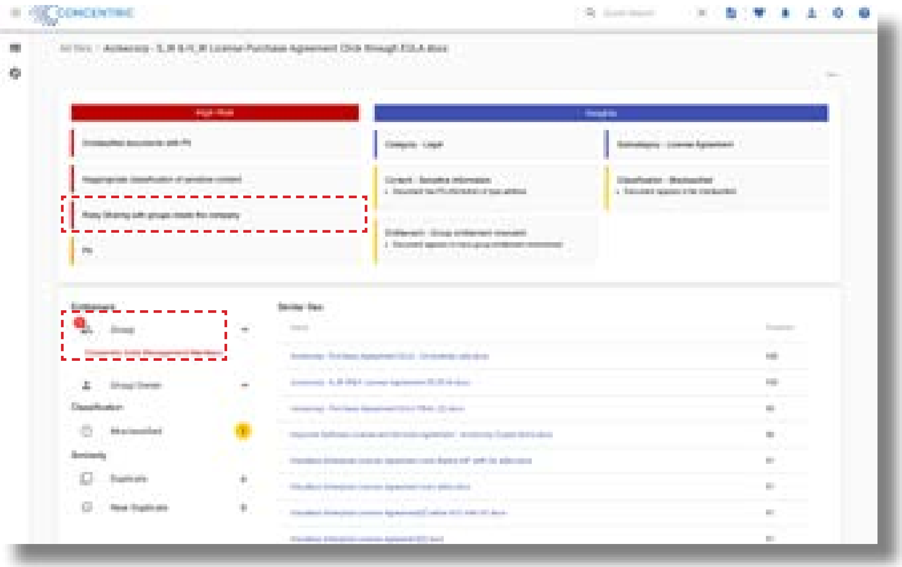
Collectively, the security practices in use within a data category accurately reflect the best judgment of the content owners. Risk Distance identifies risk by calculating the distance from the category's security baseline to each individual data element. Risk distance finds inappropriate sharing, incorrect group membership or access control settings, unclassified regulated content, inappropriate file locations that place sensitive data at risk of loss. Risk Distance also offers insights into users and file usage to better understand whether files are being impacted by ransomware and may need urgent attention.



Inappropriate External Sharing

Concentric MIND

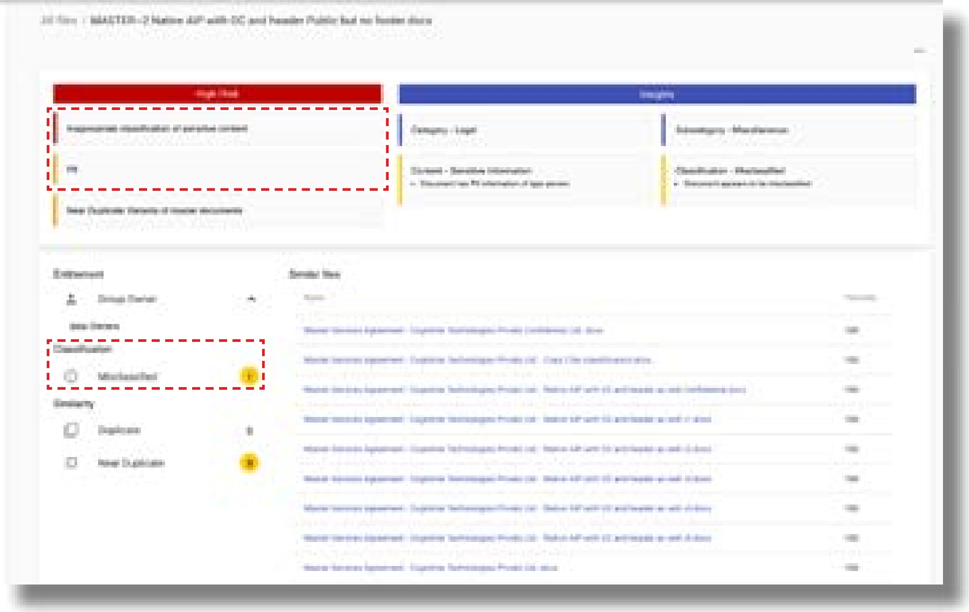
Centralized MIND, a deep-learning-as-a-service capability, improves categorization coverage and speeds model adaptation by aggregating intelligence across Concentric customers. MIND curates all of Semantic Intelligence's deep learning models (whether developed by Concentric or customers) to offer the best-fitting model to every customer when they need it. Shared models are entirely mathematical and do not contain source data to ensure customer privacy and security.


CONCENTRIC
High Risk
Insights
Unclassified documents with PII
Inappropriate classification of sensitive content
Risky Sharing with groups inside the company
PII
Category - Legal
Subcategory - License Agreement
Content - Sensitive information
Classification - Misclassified
Entitlement - Group entitlement mismatch
Entitlement
Group
Group Owner
Classification
Misclassified
Similarity
Duplicate
Near Duplicate
Similar files

Inappropriate Internal Sharing

Remediation Options

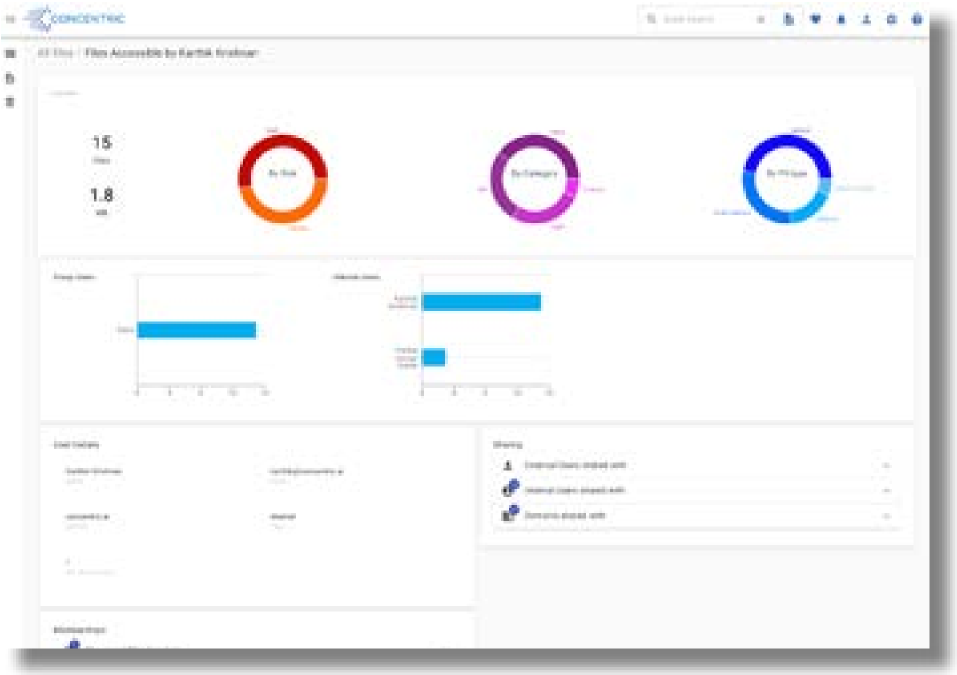
Concentric Semantic Intelligence™ remediates risk by leveraging security management mechanisms already in use at most organizations, allowing you to choose the remediation options that best fit your organization's needs. Our solution can automatically classify documents, change entitlements, or adjust access controls based on risk. Integrations with data loss prevention (DLP) products or document metadata management approaches like Microsoft Information Protection (MIP) enable far more effective protection as a result.


High Risk
Insights
Inappropriate classification of sensitive content
PII
Near Duplicate Variants of master documents
Category - Legal
Subcategory - Miscellaneous
Content - Sensitive information
Classification - Misclassified
Entitlement
Group Owner
Classification
Misclassified
Similarity
Duplicate
Near Duplicate
Similar files

Not Classified as Having PII

User 360

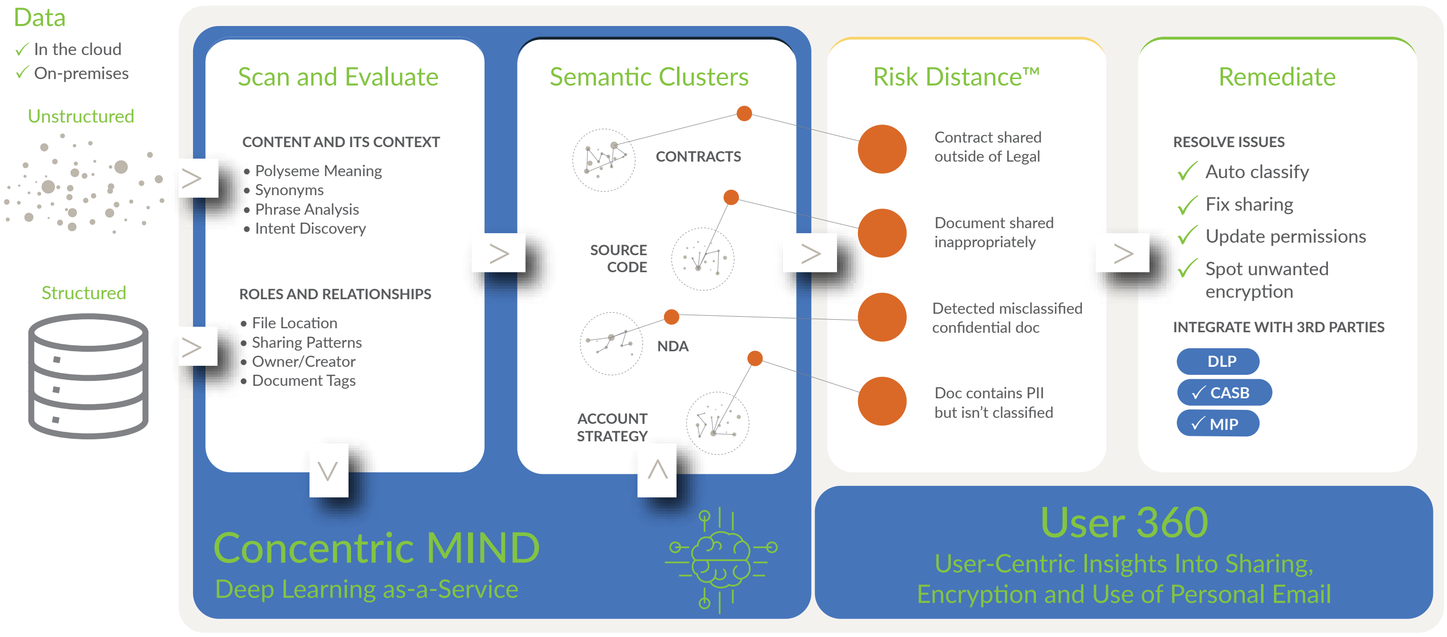
User 360 offers a user-centric view of each file accessible by a specific employee. Quickly establish usage patterns, spot inappropriate encryption and find risky sharing patterns. Compare a user's access and sharing practices with similar users, spot personal email sharing and understand what privacy-sensitive content each user can access. User 360 proactively protects against insider threats and ransomware without rules or hard-to-maintain policies.



User 360

Architecture

Concentric Semantic Intelligence™ Solution



Data
✓ In the cloud
✓ On-premises

Unstructured

Structured

Scan and Evaluate

CONTENT AND ITS CONTEXT
- Polyseme Meaning
- Synonyms
- Phrase Analysis
- Intent Discovery

ROLES AND RELATIONSHIPS
- File Location
- Sharing Patterns
- Owner/Creator
- Document Tags

Semantic Clusters

CONTRACTS

SOURCE CODE

NDA

ACCOUNT STRATEGY

Risk Distance™

Contract shared outside of Legal

Document shared inappropriately

Detected misclassified confidential doc

Doc contains PII but isn't classified

Remediate

RESOLVE ISSUES
✓ Auto classify
✓ Fix sharing
✓ Update permissions
✓ Spot unwanted encryption

INTEGRATE WITH 3RD PARTIES

DLP

✓ CASB

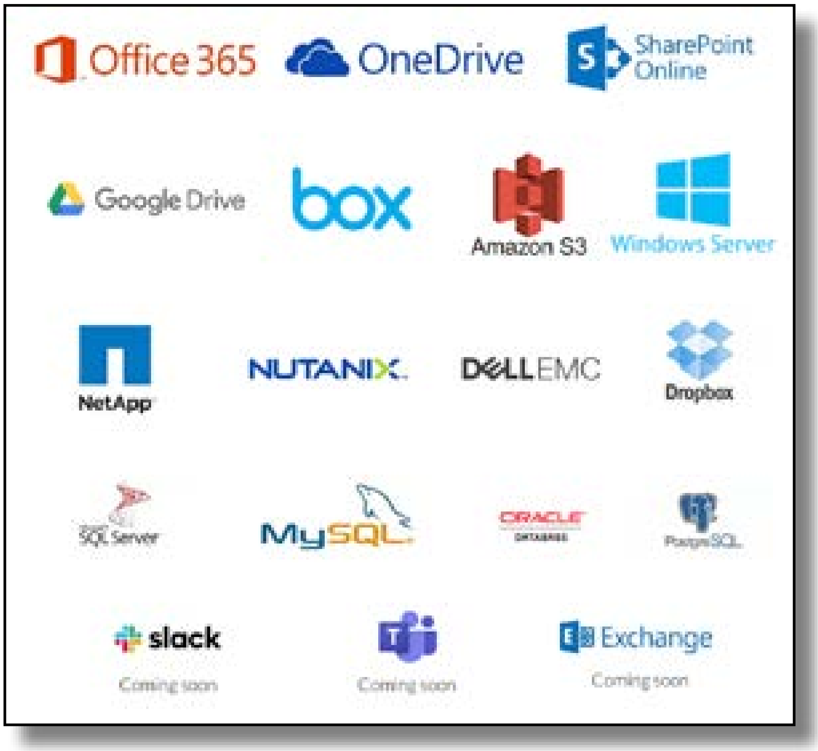
✓ MIP

Concentric MIND
Deep Learning as-a-Service

User 360
User-Centric Insights Into Sharing, Encryption and Use of Personal Email

Broad Connectivity

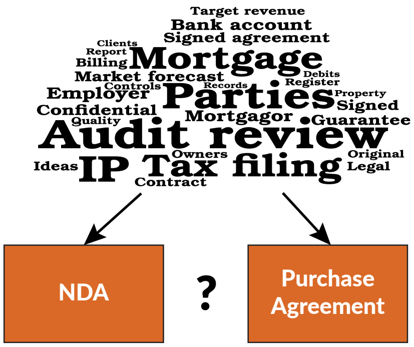
Concentric Semantic Intelligence™ offers API connectivity to securely scan unstructured data wherever it's stored: on-premises, in cloud-based storage solutions, or in structured databases. With support for PostgreSQL, Office365, OneDrive, SharePoint Online, Google Drive, Box, Dropbox, Amazon S3, Windows file shares, MySQL and more (click here for current list). Continuous autonomous monitoring ensures your data is constantly protected and compliant.



Powered By Deep Learning

Data Discovery and Categorization

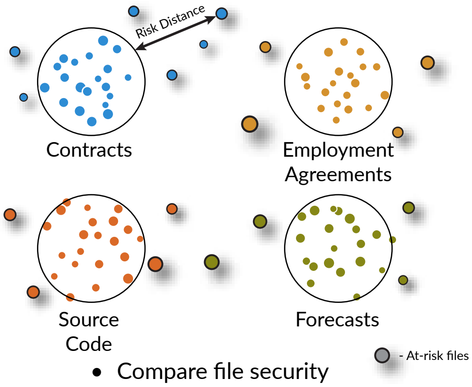
Natural Language Processing



- Sentence, paragraph and document analysis
- Discover thematic categories and establish file peer groups
- Accurate, autonomous, no rules or complex configurations

Risk Exposure Assessment

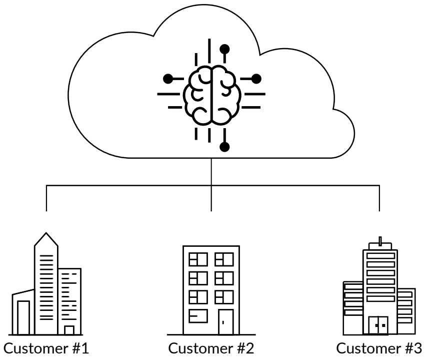
Risk Distance™ Analysis



- Compare file security practices to peer group
- Identify at-risk files
- Spots file-based, activity-based and user-based risk factors

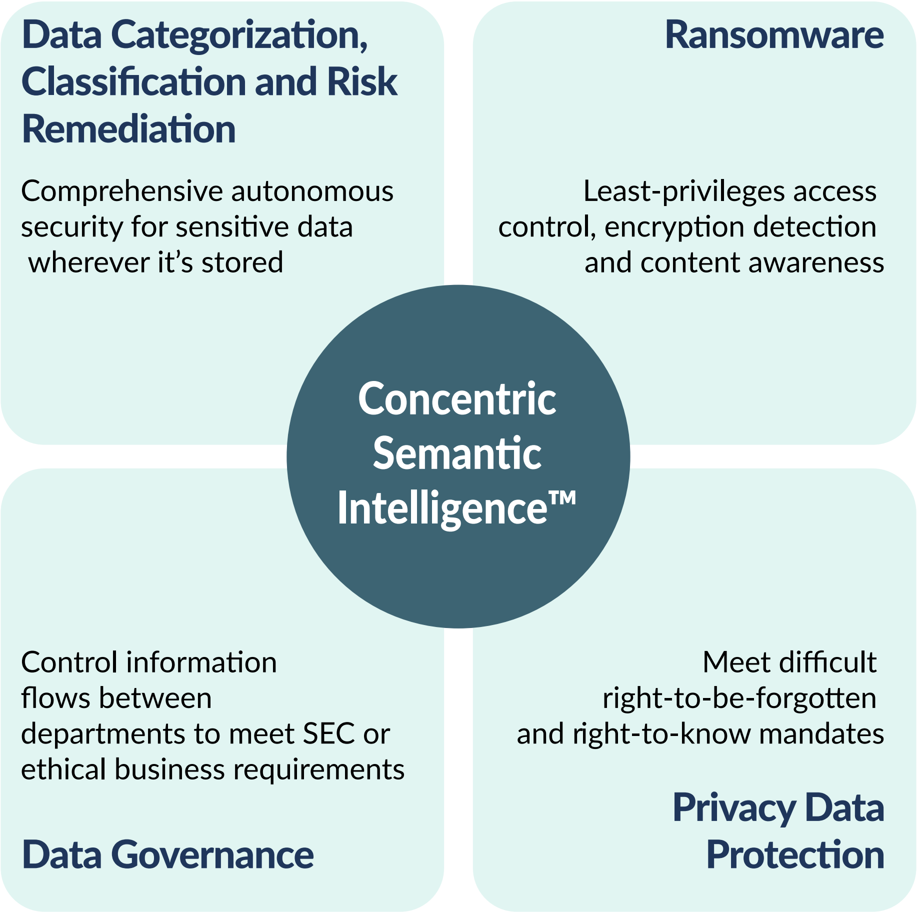
Model Management

Concentric MIND



- Centralized model management
- Curated delivery of best-fit model for any cluster
- Manages customer-derived and Concentric-developed models

Use Cases



Data Categorization, Classification and Risk Remediation

Comprehensive autonomous security for sensitive data wherever it's stored

Ransomware

Least-privileges access control, encryption detection and content awareness

Concentric Semantic Intelligence™

Control information flows between departments to meet SEC or ethical business requirements

Data Governance

Meet difficult right-to-be-forgotten and right-to-know mandates

Privacy Data Protection

About Concentric

- Venture funded by top Silicon Valley VCs
- A secure SaaS solution, API driven
- SOC 2 Type 2 certified

2021 FINALIST
SCawards
Rookie Security Company of the Year

GLOBAL INFOSEC AWARDS
WINNER
CYBER DEFENSE MAGAZINE
2021

Try Concentric using your own data. Contact us today for a free risk assessment and we'll help you plan your next data privacy move.

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