

Thales Trusted Cyber Technologies: Who We Are

Trusted, U.S. Provider of Cybersecurity Solutions Dedicated to the U.S. Federal Government













Corporate Snapshot

- Business Area of Thales Defense & Security Inc.
- President: Lloyd Mitchell
- Headquarters: Abingdon, MD
- Maintain required U.S. Federal Government approvals and certifications to develop, support and sell products to government clients
 - Proxy Agreement with DCSA for Foreign Ownership, Control and Influence (FOCI)
 - National Security Agreement with the Committee on Foreign Investment in the United States (CFIUS).
- Trusted U.S. Source of Supply of Key Technologies for the Federal Government
- Provide U.S. based support for all products developed and sold through Thales Trusted Cyber Technologies



U.S. Support | Cleared Employees | U.S. Manufacturing



Development

Design core solutions for U.S.
Federal agencies with code
maintained & compiled by
Thales TCT

Commercial to Type 1 development capabilities All R&D is onshore with only U.S. citizens (75%+ cleared)

We mitigate the risk associated with procuring solutions developed outside of the U.S.



Manufacturing

Provide core solutions that have a U.S. supply chain lifecycle

Rigid supply chain risk mitigation process including a Vendor Approval Process prohibiting the use of tainted or counterfeit components

Trusted/controlled distribution, delivery, and warehousing



Sales

Maintain all government approvals and certifications of products required by U.S.

Federal agencies

All customer information maintained exclusively by Thales TCT for both core and resale product sales

All U.S. citizen sales team



Support

All Technical and Sales support is onshore with only U.S. citizens

Fully cleared support Levels 1-

Web, email and phone support

24x7x365 support available

On-site services available



Federally-focused Solutions to Mitigate Risk



Zero Trust



Cloud Security



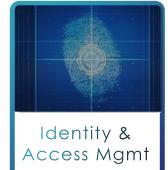
Data Protection



PKI Security



Network Encryption





Application Security



Quantum



Edge Security



Ransomware Prevention



Process Automation





Security Where You Need It, Delivered On Your Terms



Protect anything





Big data



Intellectual Property



Financial data



Enterprise data



Identities of things



Payments & digital transactions



Protect anywhere





Applications



Data centers



Containers



Networks



Virtual



Clouds

Delivered any way





On-premises hardware or software



Hybrid cloud & on-premises



As a service



Integrating with Existing IT Infrastructure







Agenda

- Introduction
- Define the Data Security Problem
- Demo how DSF solves the problem
- Unique Features of Data Security Fabric
- Demonstration
- Questions



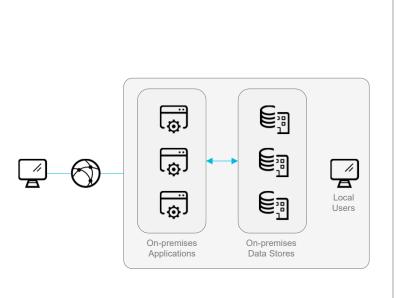
Evolution of data workloads

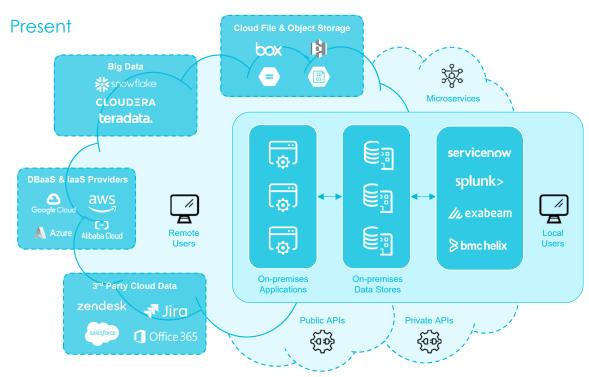
Distributed & cloud technologies are powerful but tend to create management complexity

Organizations have data workloads beyond relational databases: non-relational, data lakes, business intelligence apps, Al models, etc.

Past

- Organizations are undergoing modernization efforts (e.g., DevOps, microservices, multicloud)
- CISOs must protect a broader digital surface area, which has more attack vectors and risks







Data Security Questions

Along with benefits, new technologies come with security challenges & needs

Key use cases driving business needs



We have a data inventory problem. Where is my sensitive data? How do I get visibility?



I have both data compliance & security needs; how can I simplify solving for both?



Who is accessing my data in these disparate locations?



How can I get the most value from my data source logs to understand our risk?



Are my databases configured securely? Is data encrypted?



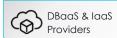
How can I get an actionable view of my monitored data?

Evolving technologies driving new use cases















We have a data inventory problem. Where is my sensitive data? How do I get visibility?

More-and-more users and apps on connected, yet siloed, systems make it hard to discover sensitive data and have oversight or manage access across data sources

CLOUDERA
Data Science

Adatabricks
Ecommerce

CLOUDERA
Data Science

Aws
Sales

Thales automatically discovers your data stores across on-premises, hybrid, and multicloud environments to help you protect and manage your sensitive data



- Autodiscover: Across AWS, Azure, GCP, OCI, Alibaba, etc. & on-premises
- Classification: Pinpoint and categorize sensitive data across all platforms
- Tracking & unified view:
 What, Why, Who, When,
 Where monitoring, risk
 analysis, & rapid response



Who is accessing our data and what are they doing with it?

Database Activiy Monitoring

select SCN, TO CHAR(CAST(EVENT TIMESTAMP UTC AS TIMESTAMP), '**0') as "TIMESTAMP", ADDITIONAL INFO, AUDIT TYPE, SESSIONID, OS USERNAME as "CLIENT USER". USERHOST. TERMINAL as "CLIENT TERMINAL". CLIENT PROGRAM NAME, AUTHENTICATION TYPE. DBUSERNAME, STATEMENT ID, ENTRY ID, ACTION NAME as ACTION, RETURN CODE as RETURNCODE, OS PROCESS, OBJECT SCHEMA, OBJECT NAME as OBJ\$NAME, DBID, SQL TEXT, APPLICATION CONTEXTS, CLIENT IDENTIFIER, DBLINK INFO, INSTANCE ID, PROXY SESSIONID, SQL BINDS. SYSTEM PRIVILEGE USED, CLIENT PROGRAM NAME, UNIFIED AUDIT POLICIES, XS SESSIONID, XS USER NAME, TRANSACTION ID, NEW SCHEMA, NEW NAME, ROLE, SYS CONTEXT('**1','**2') as DATABASE NAME from UNIFIED AUDIT TRAIL WHERE '**3'='**3' AND EVENT TIMESTAMP UTC > CAST('**4' AS TIMESTAMP) AND EVENT TIMESTAMP UTC <= CAST('**5' AS TIMESTAMP)

- Limited database security expertise
- Each database has own security controls
- Logs do not give visibility into sensitive data
- Severity of the threat is unknown
- Too many alerts to process
- Too many tools to manage
- Operational frustrations (translation: what do we do with all the information we are getting?)

Thousands to millions of events like these daily



Data Security Compliance within the DoD and Civilian Departments

Along with benefits, new technologies come with security challenges & needs

Key use cases driving business needs



Revolve around requirements as enumerated in an Authorization to Operate (ATO)



Assessment of security control implementation from relevant controls selected from NIST SP 800-53

- Access Controls (AC)
- Audit and Accountability (AU)
- Security Assessment and Authorization (SC)
- Configuration Management (CM)
- Identification and Authentication (IA)
- Incident Response (IR)
- Privacy Reporting (PM)



Zero Trust Architecture Directives

- Data Pillar
- Visibility & Analytics
- Automation & Orchestration



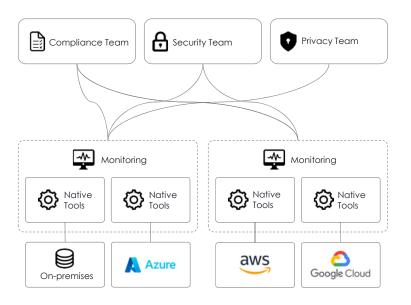
DISA STIG requirements for databases

- Hardening requirements
- Auditing requirements
- •Successful and unsuccessful attempts to access, modify, and delete categories (classification) of information
- •Successful and unsuccessful attempts to access, modify and delete security objects
- •Enforcement of access restrictions associate with changes to configuration
- •Successful and unsuccessful attempts to add, modify and delete privileges/permissions
- Logins and logouts
- Unsuccessful logins
- •Concurrent logins by same user from different workstations
- Unsuccessful access to objects
- •All direct access (outside of a frontend application such as a web application that it supports)

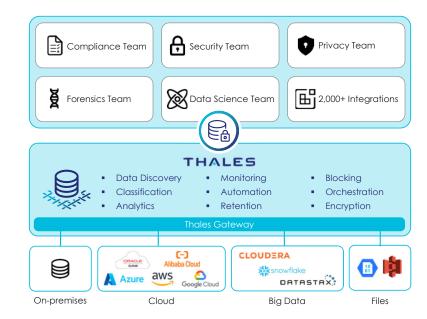


How can I get an actionable view of my monitored data?

Log files deliver a high volume of rich usage data at a high velocity; need to bridge and unify data from diverse sources & systems with better and faster visibility for insights



- Thales offers unified visibility, encryption, control, automation, and insights across the entire data estate - delivering comprehensive and centralized management via a single service or dashboard
- Enable previously siloed teams secure access to data stores to unlock new business innovations and insights





Data Security's value goes far beyond Compliance

Supports a broad range of business needs across the organization



Safely Accelerate **Business Transformation**CISO/CIO

How can I protect my data and ensure compliance across multiple clouds?

OTHER BUSINESS NEEDS

- How do I embrace new technologies to help transform my businesses?
- How do I protect my data as I move apps and services to the cloud for agility and speed?
- How can I reduce my CAPEX while using the cloud to to quickly scale?



Drive

Data Security

Security & IT Professionals

I have both data security & compliance needs; how can I simplify solving for both?

OTHER BUSINESS NEEDS

- How do I protect data from external attacks, e.g., ransomware, SQL Injection, malware, etc.?
- How do I detect and mitigate insider threats, e.g., misuse, compromised credentials, etc.?
- How do I prevent social engineering attacks and vulnerability exploits?
- How do I gain visibility of all data traffic, access, digital assets, and data stores?
- Can you help me apply Zero Trust principles to my organization?



Understand & Manage **Risk**

Internal Audit & Executives

How can I get the most value from my data source logs to understand our risk?

OTHER BUSINESS NEEDS

- How do I reduce organizational risk associated with sensitive data?
- How can I proactively assess my risk posture including my vulnerabilities?
- How can I orchestrate and automate risk management?



Enable

Analytics & Insights

IT, Security & SOC Engineers

How can I get an actionable view of my monitored data estate?

OTHER BUSINESS NEEDS

- How do I consolidate alerts & normalize insights?
- How do I shorten SOC's critical incident detection and response times?
- How can I accelerate risk resolution for business users?





OTHER BUSINESS NEEDS

- How do I discover ungoverned data repositories?
- How do I classify data types for compliance and audits?



Ensure

Compliance

Executives & Compliance

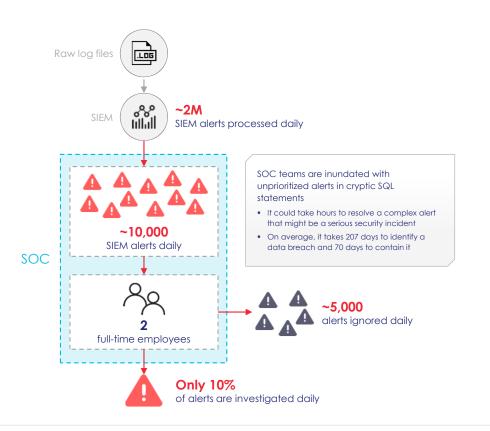
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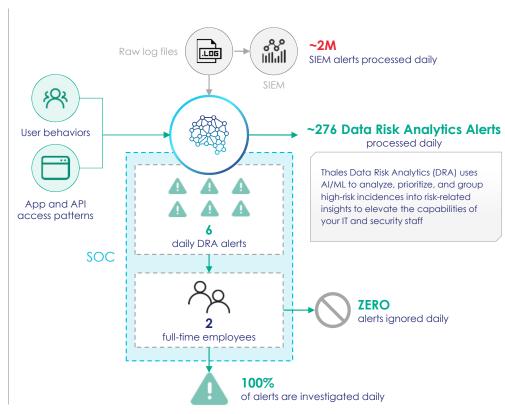
OTHER BUSINESS NEEDS

- Can you help me avoid fines & penalties with audit trails & compliance reports?
- How can I comply with global regs & privacy laws: SOX, PCI, NYDFS, HIPAA, SOC 2, GDPR, CPRA, etc., and pass my audits?
- How can I comply with industry standards like COBIT, ISO/IEC 38500, & ISO/TC 215?
- How do I consolidate compliance efforts for all data types and data stores?
- Can you help me with my cybersecurity insurance?



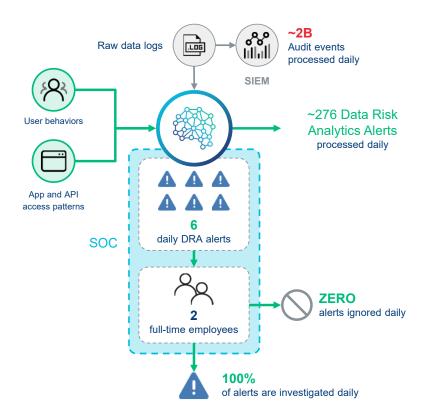
How can I get the most value from my data source logs (database audit) to understand our risk?







Imperva Data Risk Analytics (DRA) Protects your Data

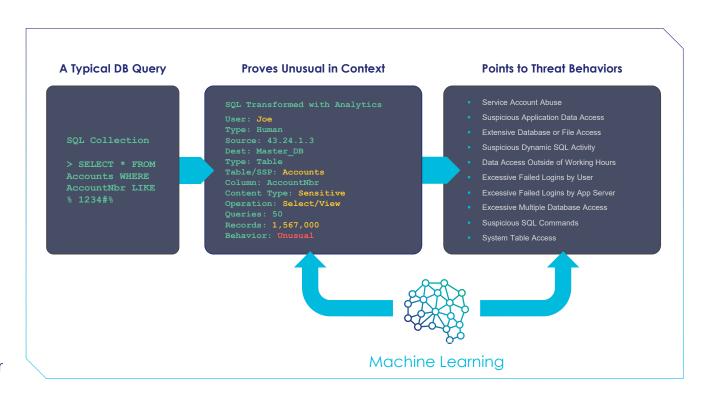


Imperva Data Risk Analytics (DRA) uses Al/ML to analyze, prioritize, and group high-risk incidences into risk-related insights to elevate the capabilities of your IT and security staff

- Built based on Imperva 20+ years of data security domain expertise
- Tested on real data of hundreds of Imperva customers
- Detects bad security practices that might be exploited by attackers as well as real data breaches → Ongoing risk reduction
- Doesn't alert on any abnormal behavior, only on the ones that might indicate a data breach
- Looks for insider attackers malicious, compromised and careless which are extremely difficult to detect
- Detects incidents across the data kill chain to hermetically protect that data
- Doesn't need any information on the organization from the customers everything is learnt independently by DRA
- All risk incidents are prioritized
- All incidents are explained in simple english and with all relevant context

Leveraging decades of data domain threat research

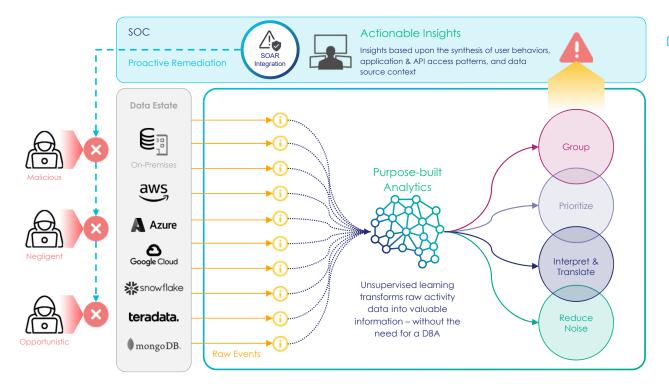
- Continuous insider and external threat research
- Modeling, building, and testing of anomalous and bad behavior detection with machine learning algorithms
- Seamless translation of database languages into plain English for effortless usage
- Translates Structured Query Language (SQL) to security events that are actionable for the Security Operations Center





Data Risk Analytics elevates the security capabilities of IT

DRA can be the home page for data security in your SOC

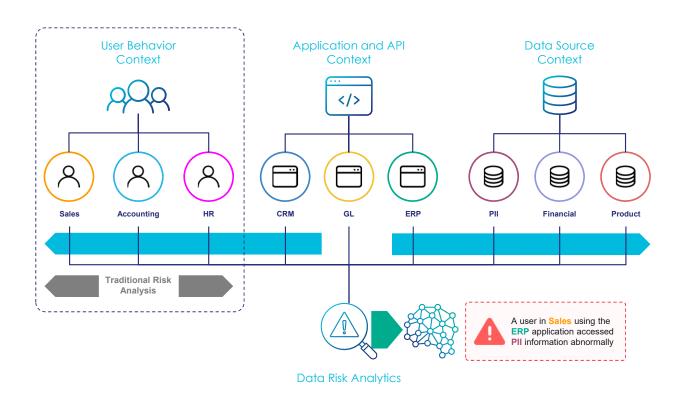


DSF Coverage:

- File servers: Windows file shares, NFS (Network file system) NAS (Network attached storage), SharePoint
- AWS: Amazon Elastic File System (EFS), Amazon Elastic Block Store (EBS), Amazon FSx for Lustre, Amazon FSx for NetApp ONTAP, Amazon Storage Gateway, Amazon FSx for Windows File Server
- Azure: Azure Disk Storage, Azure Files, Azure NetApp Files, Azure Elastic SAN
- GCP: Google Filestore, Google Persistent Disk
- Microsoft: SharePoint online, Microsoft 365, OneDrive



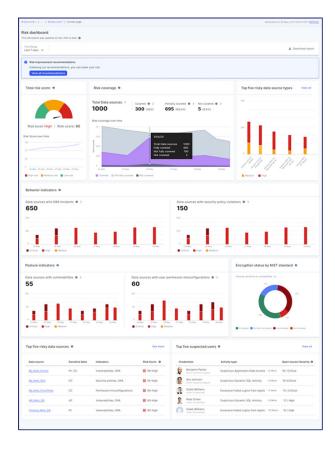
Prioritize and group high-risk incidents to elevate team skills



- No configuration needed
 - Unsupervised learning transforms raw activity data into valuable information without the need for a DBA
- Fully automated
 - Events are prioritized based on best practices defined using pre-built or custom models without the need for a data scientist
- Unique triangulation
 - Insights based upon the synthesis of user behaviors, application & API access patterns, and data source context



Data Risk Intelligence Application



Value Proposition (Beta - Q2, Q3 2024; GA - Q42024)

- Goal 1: Provide executives with a clear understanding of their organization's data risk coverage
- Goal 2: Empowering data security experts to quickly prioritize, understand, and respond to data risk alerts
- Goal 3: Prioritize specific indicators and data sources in risk score

Customer Benefits

- Reduce TCO: achieve the highest return on investment in data security
 - O Actionable and prioritized insights that ease the day-to-day work
 - Need fewer security resources to protect the organization's data, as Imperva DSF bridges the knowledge gap
- Shorten data risk management cycles: via automated prioritization and mitigation

Modernizing data security

The evolution of risk management

Orgaizations get stuck here

Data Management

Streamline data collection to elevate operational focus from collection to consumption.

Ingest, consolidate and store any data feed

Agents or agentless

nigh value

a 10 empower new use cases and users.

Unified enterprise view

Contextual enrichment

Self-service reporting

Interpretation

Exploit extensible analytics to distill data and decision trees into manageable information.

SOC/Splunk optimization

Complex correlations

Flexible UEBA engines

Operationalize

Leverage automation to transform manual efforts into efficient business processes.

Cross-silo workflows

Enterprise integrations

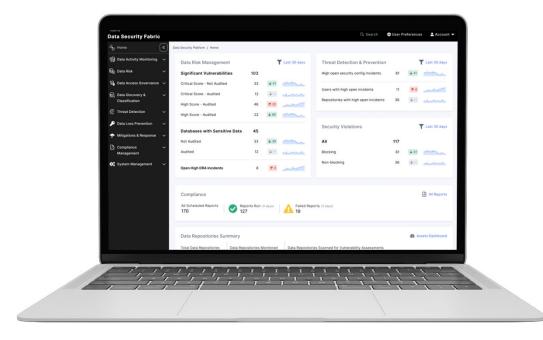
Integrated SOAR

And never quite reap the value of their efforts

THALES

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DSF unifies visibility, control, workflow automation, and insights

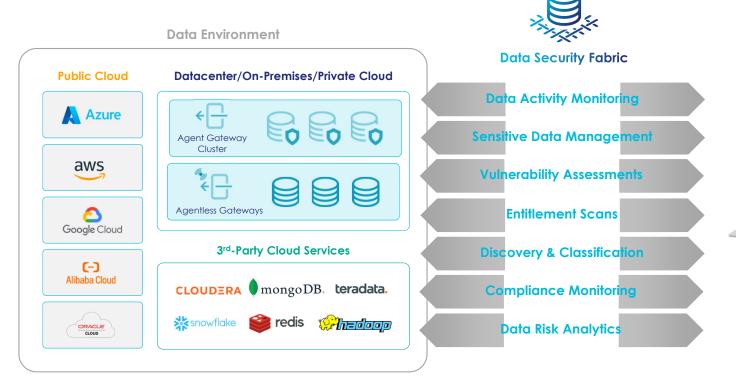


- Protect data by understanding and controlling access by users, processes, and apps within a single service view
- Gain full enterprise visibility of multicloud and hybrid threats, risk and activity across the entire data environment
- Detect anomalous and bad behavior with Machine Learning algorithms



Actionable insights automation

Imperva DSF provides a streamlined views that help customers automate their audit and security risk response and compliance processes





Unifies Visibility

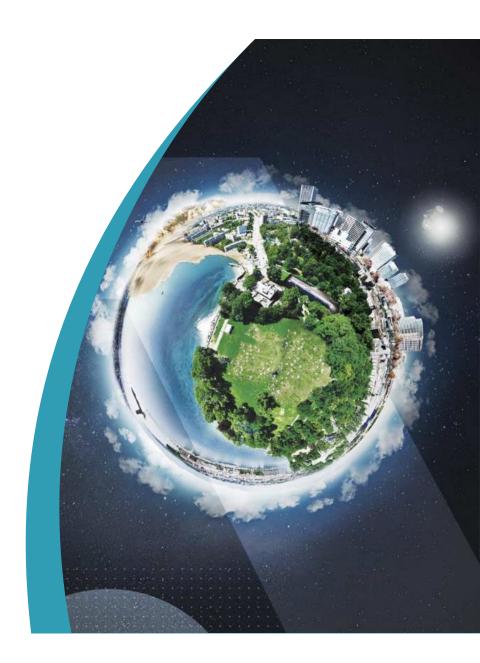
Unifies visibility, control, automation & insights via a single data service or dashboard





Questions?

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Trusted Cyber Technologies