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IdentityIQ Platform Roadmap

2019 Focus

Dan Martillotti, Director of Product Management

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Key Trends Shaping the Identity Governance Market

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Market Trends

Identity governance will become more predictive

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> “Identity Analytics solutions will gain broader enterprise adoption as organizations seek solutions to protect against insider threats.”

- Forrester Research

Market Trends

Cloud adoption of identity governance is increasing

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> “By 2022 40% of global midsize or larger enterprises will use identity and access management as a service….”

- Gartner, Inc.

Market Trends

Shortage of identity professionals

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> “Rising demand for IAM capabilities continues to create a systemic shortage of qualified IAM professionals...”

- Forrester Research

Market Trends

Increased need to govern non-human identities

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“By 2022 20% of enterprises IAM deployments will manage the identities of workspaces, applications and devices, as well as people….”

- Gartner, Inc.

SailPoint Product Vision

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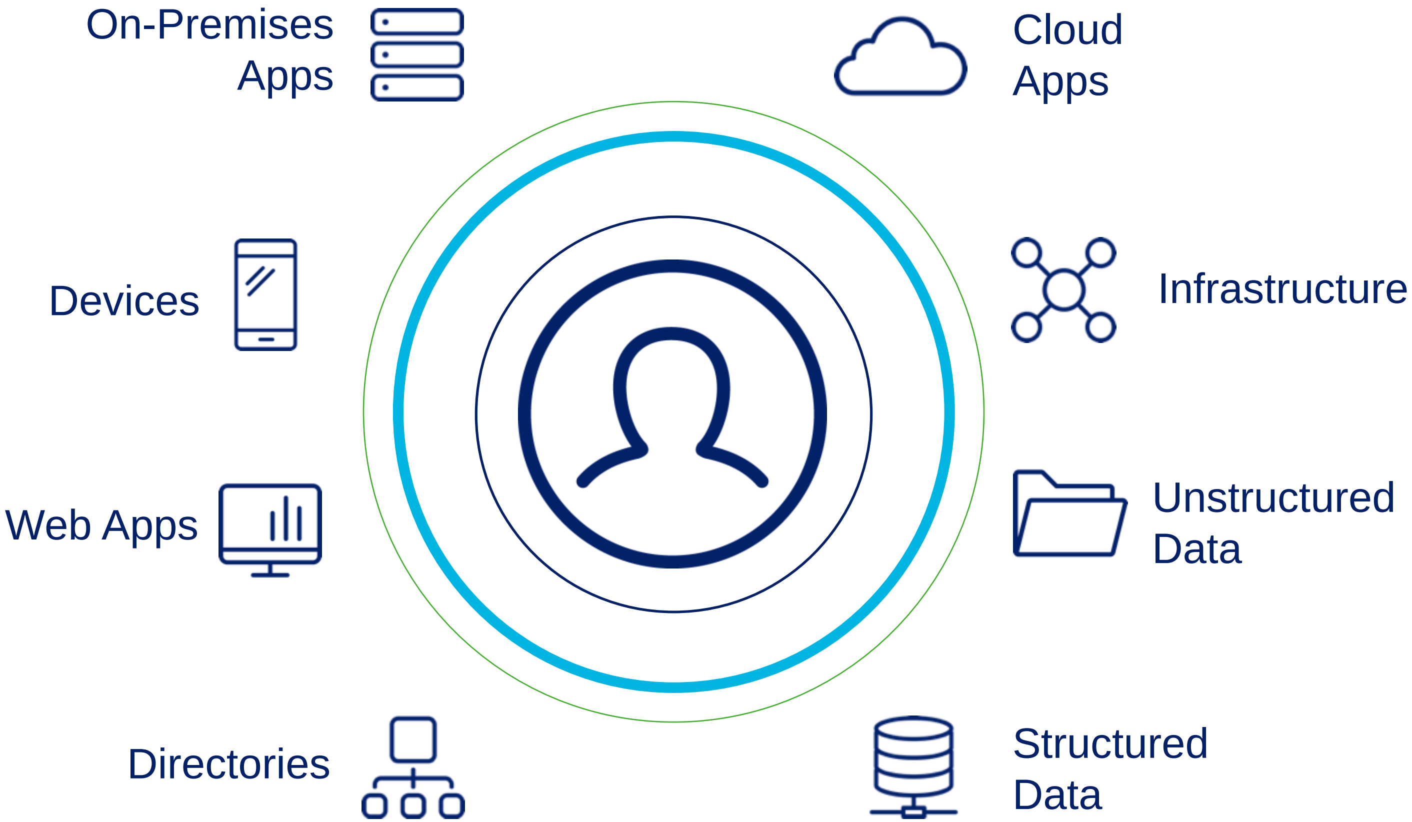
SailPoint’s Identity Management



Built to govern ALL users: employees, contractors, business partners or even bots

Optimized for hybrid IT: mainframes, on-premises/cloud applications and file storage systems

AI-driven predictive governance: focuses controls on areas of greatest risk

Cloud-first deployment model: public cloud, MSP, SaaS or on-prem

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Govern “All”

- Deliver comprehensive governance across
  - ALL **users**
  - ALL **apps**
  - ALL **data**

“AI-Enabled Identity”

- Visualize and explore identity data in new and unique ways
- Monitor user behavior to discover and flag anomalies
- Leverage machine learning dynamically assess risk in real-time

IdentityAI® Strategy

Big data and machine learning platform for identity that infuses artificial intelligence IGA processes and controls, with a focus on reducing risk and improving efficiency.

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IdentityIQ Roadmap - 2019

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2019 Investment Themes

Comprehensive and Predictive Governance

Business Process Improvements

Plug-in Framework Updates

Cloud Optimization

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And Introducing…

Identity IQ File Access Manager

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Identity Governance for Files Requires Visibility

- Which Files are **Sensitive**?
- Is Every File in Right **Location**?
- Who has **Access** to Them?
- How this **access** being **Used**?
- Who **Owns** Them?

PDF
Customer, HR, Financial Systems/ IP, Regulatory

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Sensitive Files: Discovery

File Storage Systems

- Via SailPoint Search Packs
- Via Search Terms
- Via Wild Cards
- Via REGx
- In both textual and non textual files

Data Classification

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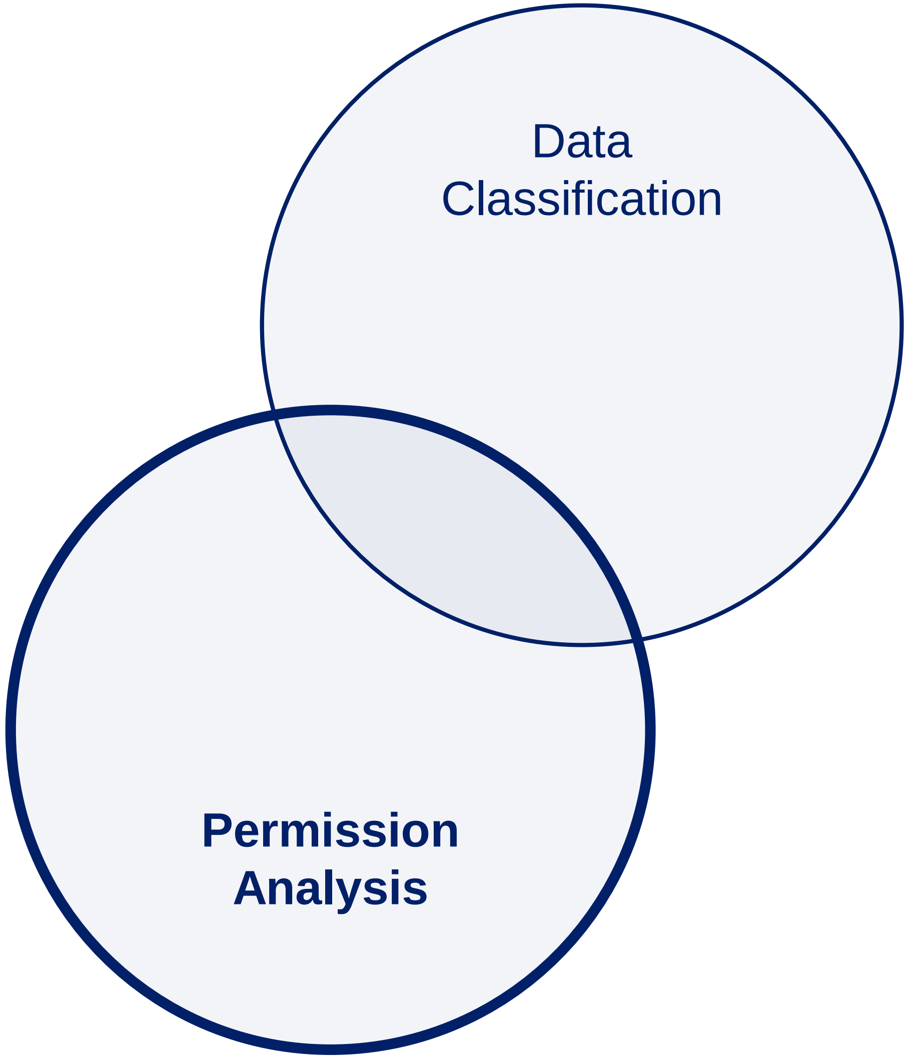
Sensitive Files: Permission Analysis

File Storage Systems

- **Inheritance / Nesting**
- **Direct Assignments**
- **Broken Inheritance**
- **Soft Inheritance Breaks**
- **Circular References**
- **Orphaned SIDS**



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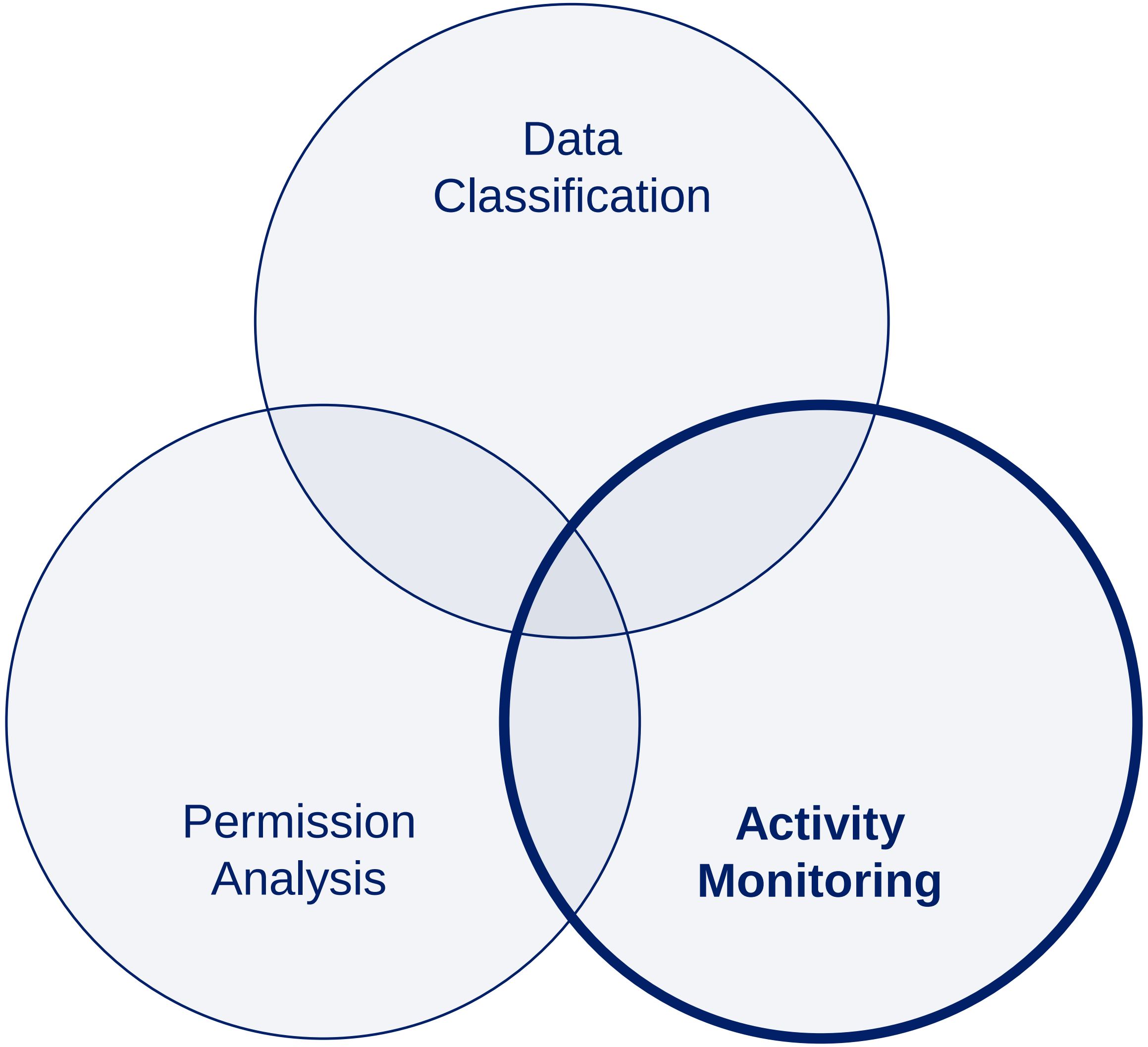
Sensitive Files: Monitoring Usage

File Storage Systems

- **All File-Folder-Based Operations**
- **All AD Security Changes**
- **Detecting the Outlier**
- **Detecting Policy Breaches**
- **Tracking Permission Usage**



Alerts, ownership, data classification, stale permissions, stale data

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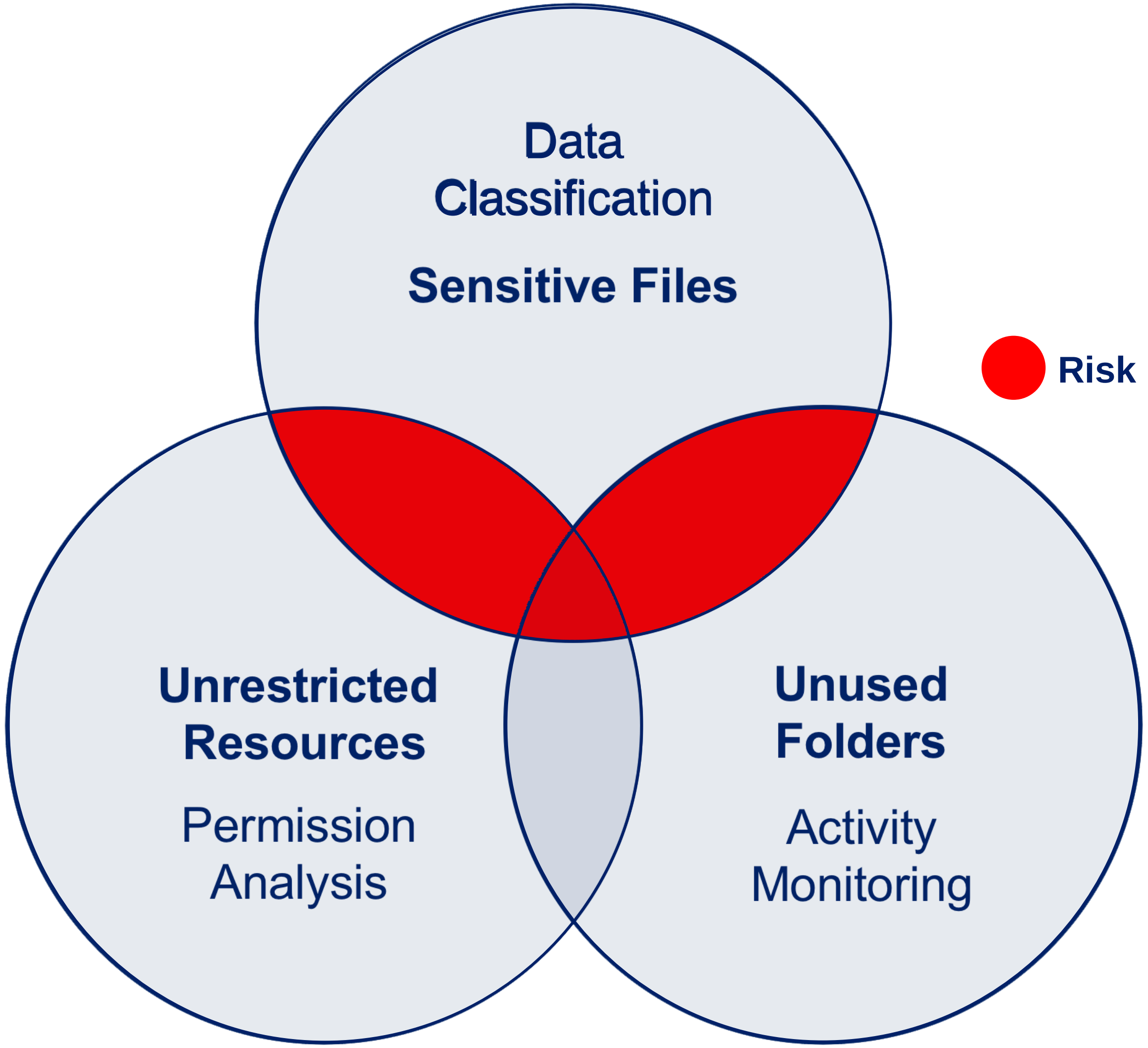
Risk-based Prioritization Focuses Governance

File Storage Systems

Four Key Visibility Questions to be Answered.

1. Which Sites, Folders, Files?
2. Who owns them?
3. Who can access them?
4. Where is the Sensitive Info?



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Address Identity Governance Initiatives

Identify and classify sensitive data

Establish data ownership

Meet compliance and audit requirements

Efficiently mitigate security risks

Support cloud migration initiatives

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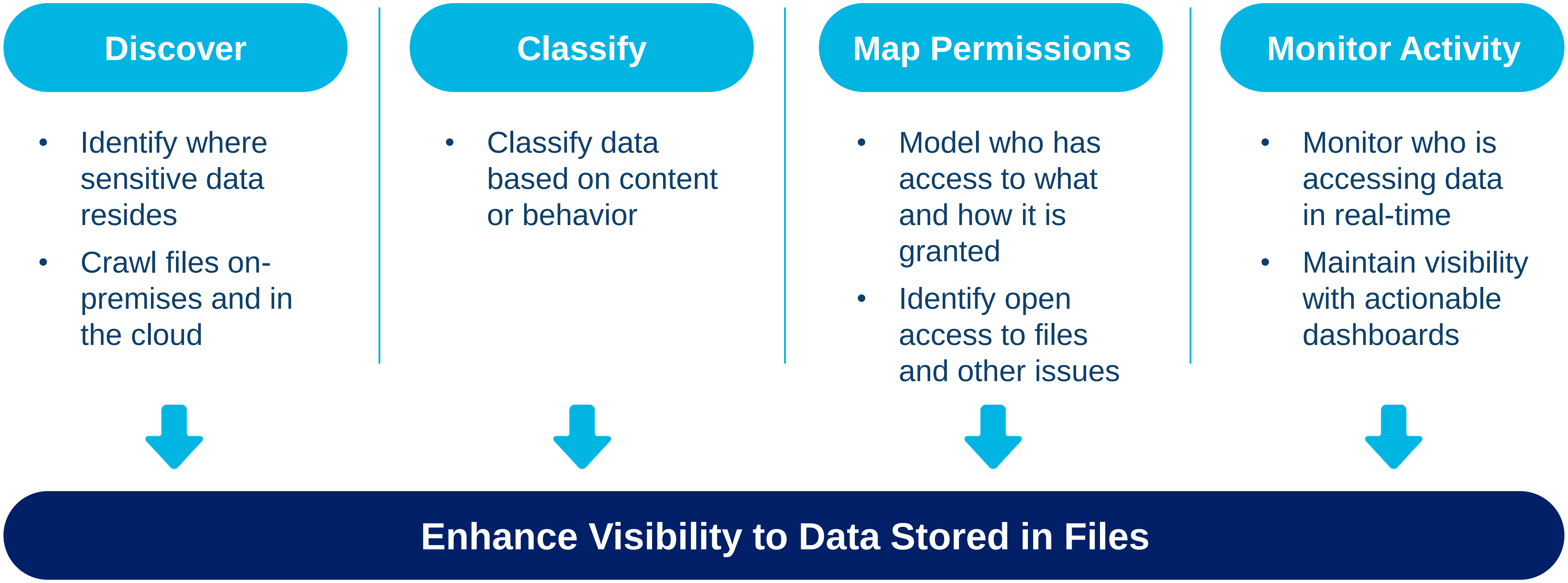
Identify and Classify Sensitive Data



Discover

- Identify where sensitive data resides
- Crawl files on-premises and in the cloud

Classify

- Classify data based on content or behavior

Map Permissions

- Model who has access to what and how it is granted
- Identify open access to files and other issues

Monitor Activity

- Monitor who is accessing data in real-time
- Maintain visibility with actionable dashboards

Enhance Visibility to Data Stored in Files

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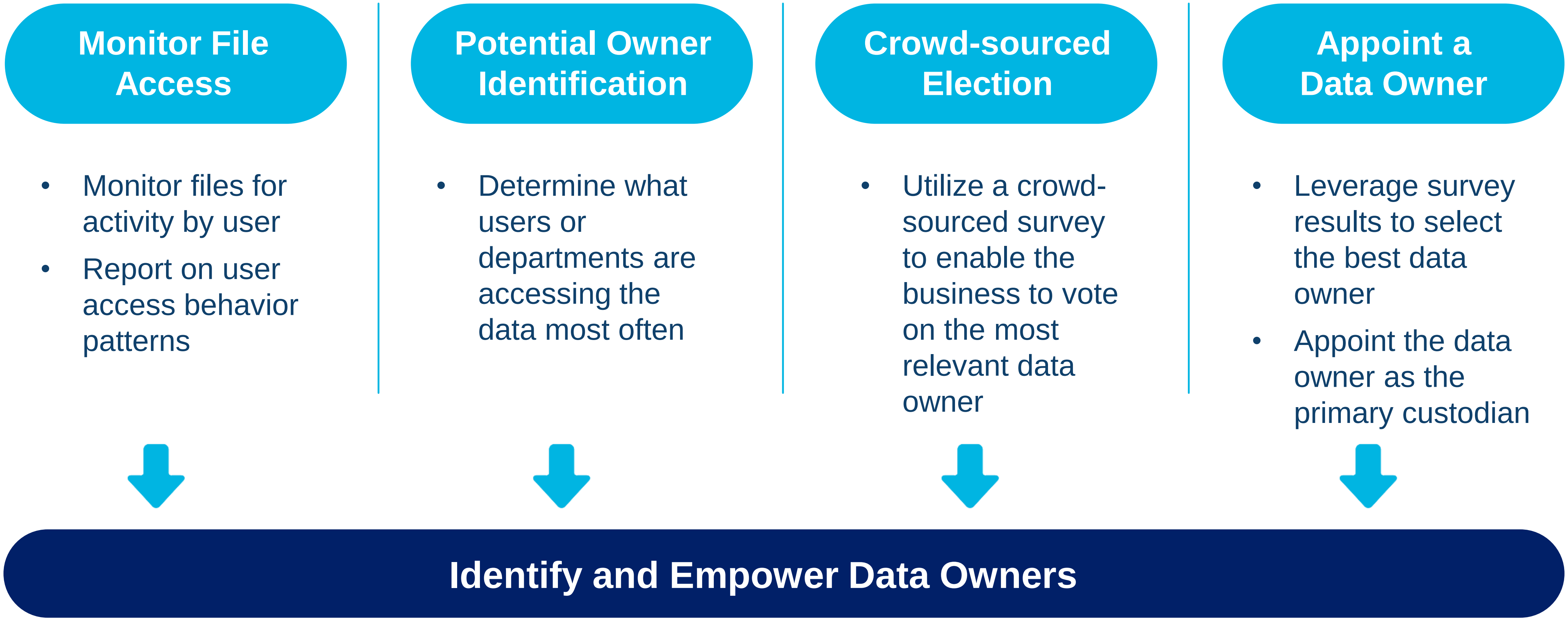
Establish Data Ownership



Monitor File Access

- Monitor files for activity by user
- Report on user access behavior patterns

Potential Owner Identification

- Determine what users or departments are accessing the data most often

Crowd-sourced Election

- Utilize a crowd-sourced survey to enable the business to vote on the most relevant data owner

Appoint a Data Owner

- Leverage survey results to select the best data owner
- Appoint the data owner as the primary custodian

Identify and Empower Data Owners

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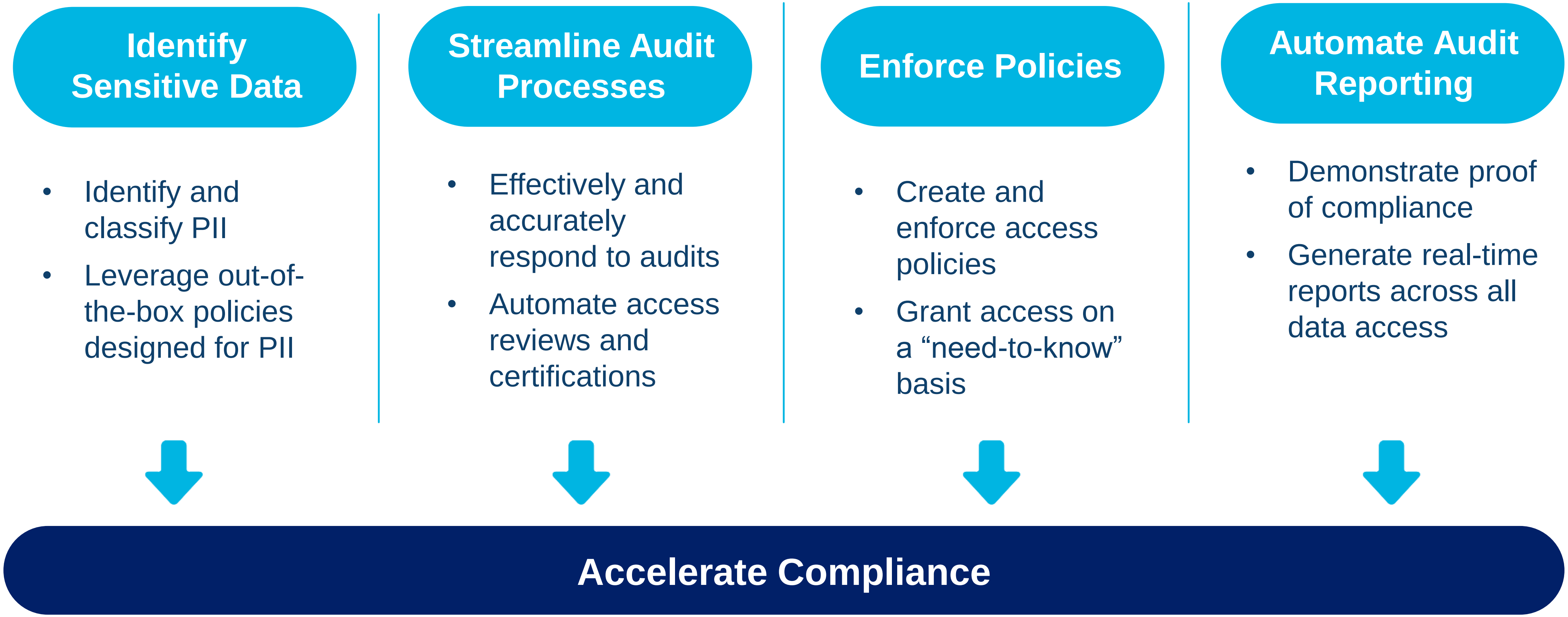
Address Compliance and Audit Requirements



Identify Sensitive Data

- Identify and classify PII
- Leverage out-of-the-box policies designed for PII

Streamline Audit Processes

- Effectively and accurately respond to audits
- Automate access reviews and certifications

Enforce Policies

- Create and enforce access policies
- Grant access on a “need-to-know” basis

Automate Audit Reporting

- Demonstrate proof of compliance
- Generate real-time reports across all data access

Accelerate Compliance

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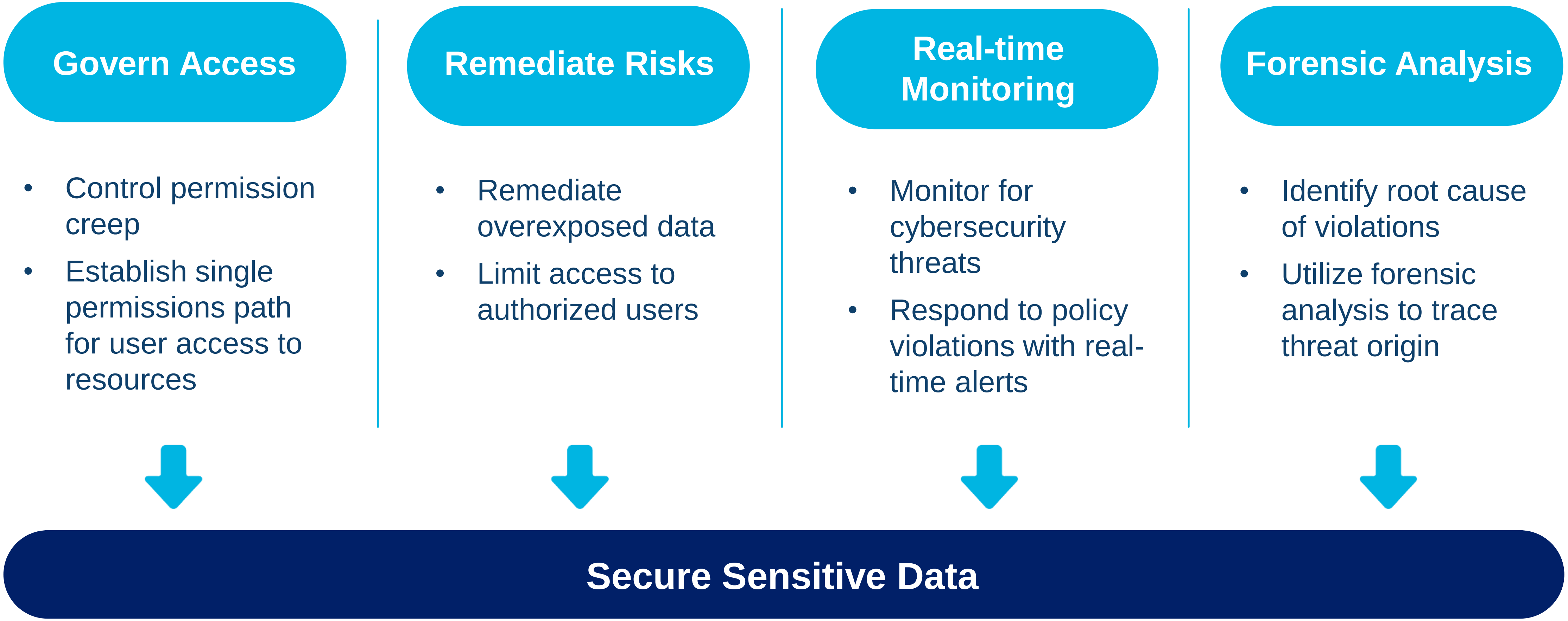
Mitigate Security Risk



Govern Access

- Control permission creep
- Establish single permissions path for user access to resources

Remediate Risks

- Remediate overexposed data
- Limit access to authorized users

Real-time Monitoring

- Monitor for cybersecurity threats
- Respond to policy violations with real-time alerts

Forensic Analysis

- Identify root cause of violations
- Utilize forensic analysis to trace threat origin

Secure Sensitive Data

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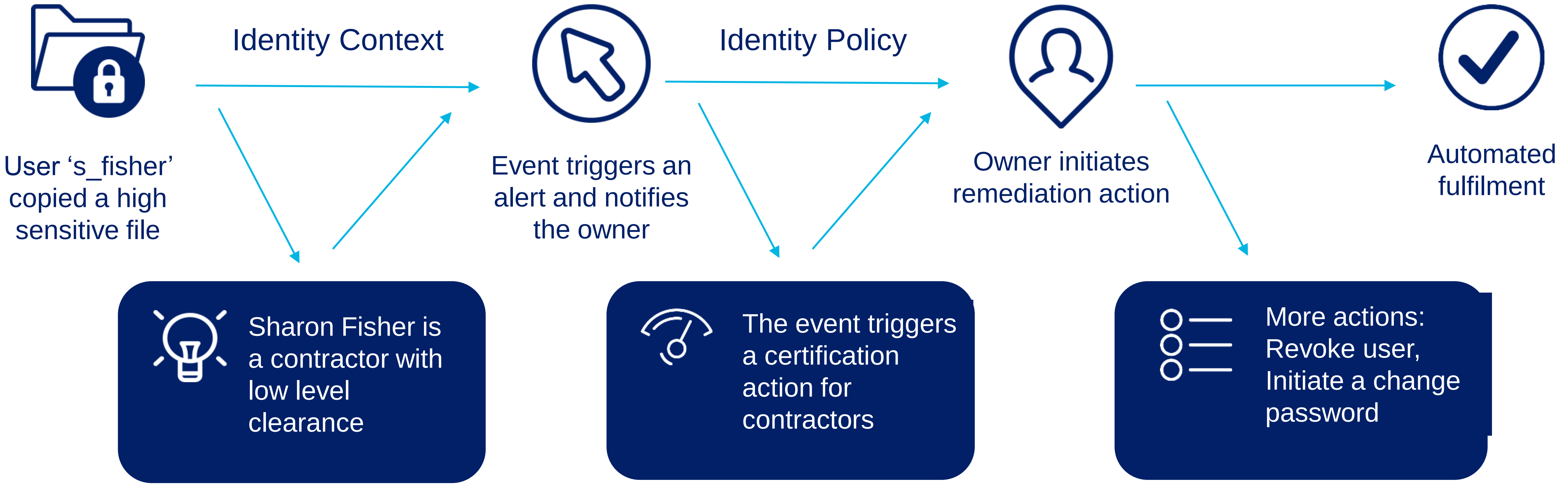
Real-Time Responses

Control access with identity context



Identity Context
Identity Policy
User 's_fisher' copied a high sensitive file
Event triggers an alert and notifies the owner
Owner initiates remediation action
Automated fulfilment

Sharon Fisher is a contractor with low level clearance

The event triggers a certification action for contractors

More actions: Revoke user, Initiate a change password

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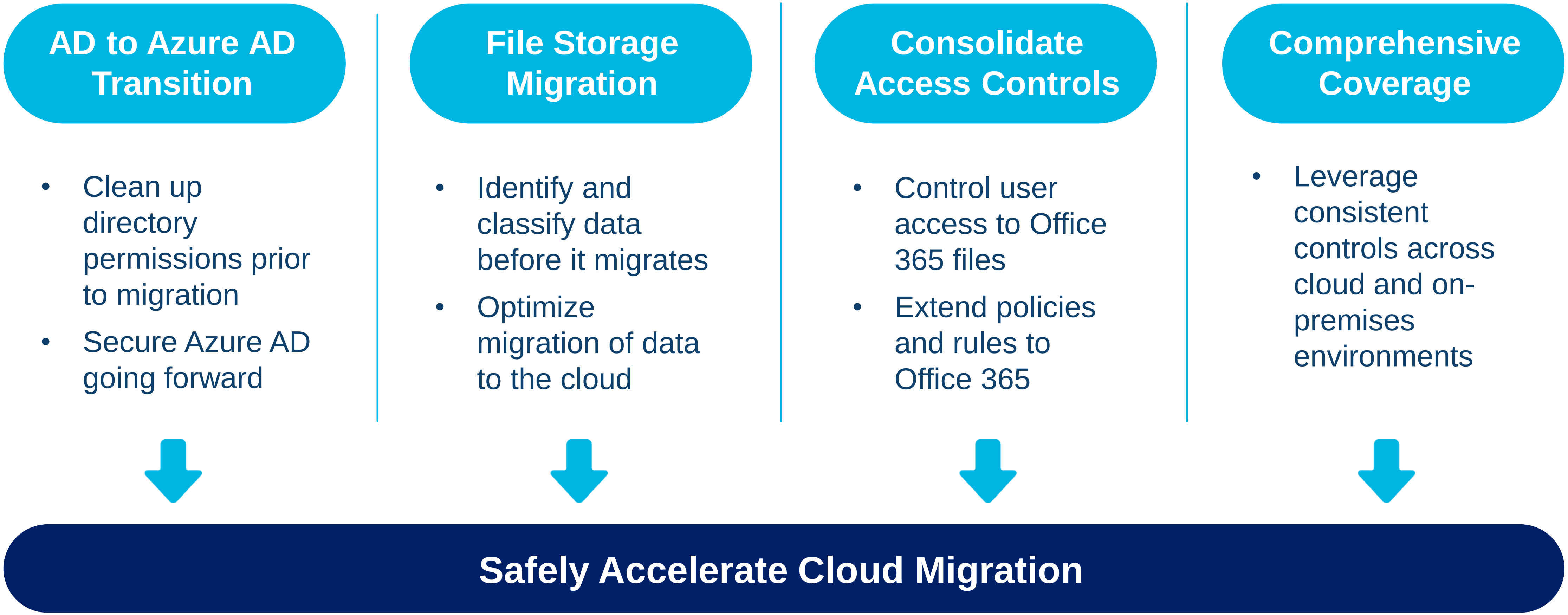
Migrate Applications and Data to the Cloud



AD to Azure AD Transition

- Clean up directory permissions prior to migration
- Secure Azure AD going forward

File Storage Migration

- Identify and classify data before it migrates
- Optimize migration of data to the cloud

Consolidate Access Controls

- Control user access to Office 365 files
- Extend policies and rules to Office 365

Comprehensive Coverage

- Leverage consistent controls across cloud and on-premises environments

Safely Accelerate Cloud Migration

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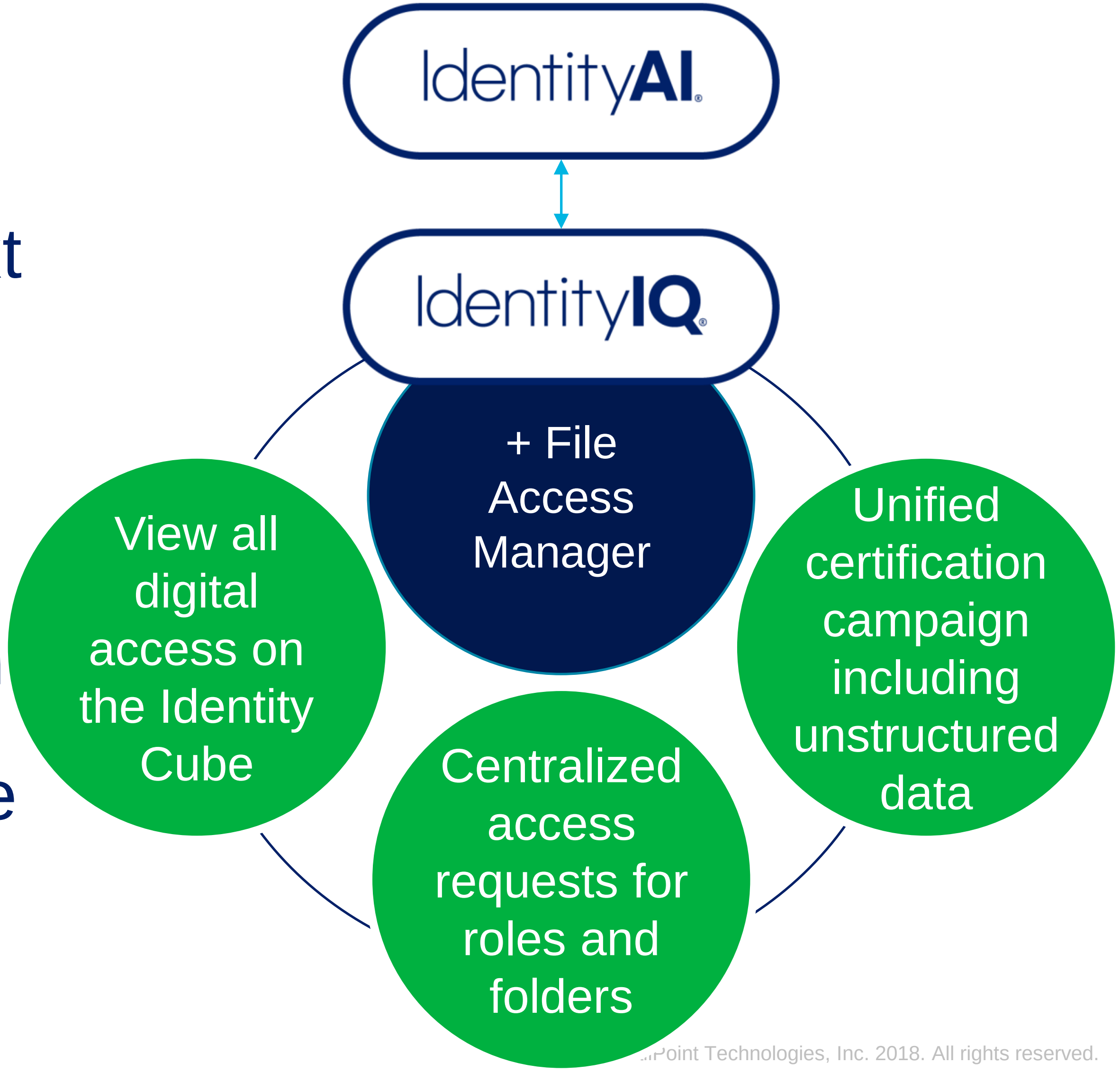
Comprehensive and Predictive Governance

Key Use Cases

1. Recommendations and context
2. Visibility
3. Access Certifications
4. Access Request and Provision
5. Dashboards, Menus, and more



IdentityAI

IdentityIQ

+ File Access Manager

View all digital access on the Identity Cube

Unified certification campaign including unstructured data

Centralized access requests for roles and folders

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Comprehensive and Predictive Governance

Reduce certification/approval fatigue therefore saving time and making your high-paid managers/access owners more efficient

- Rule-based and machine learning-based recommendations when entitlements are requested and certified
- Recommendations based on the Identity Graph and other common data points
  - Last certified/approved date
  - Entitlement similarity based on like peers within the organization
  - Entitlement similarity based on identity attributes of job tile, location, and department
- Enhanced user experience to engage certifiers/approvers to utilize and understand recommendations

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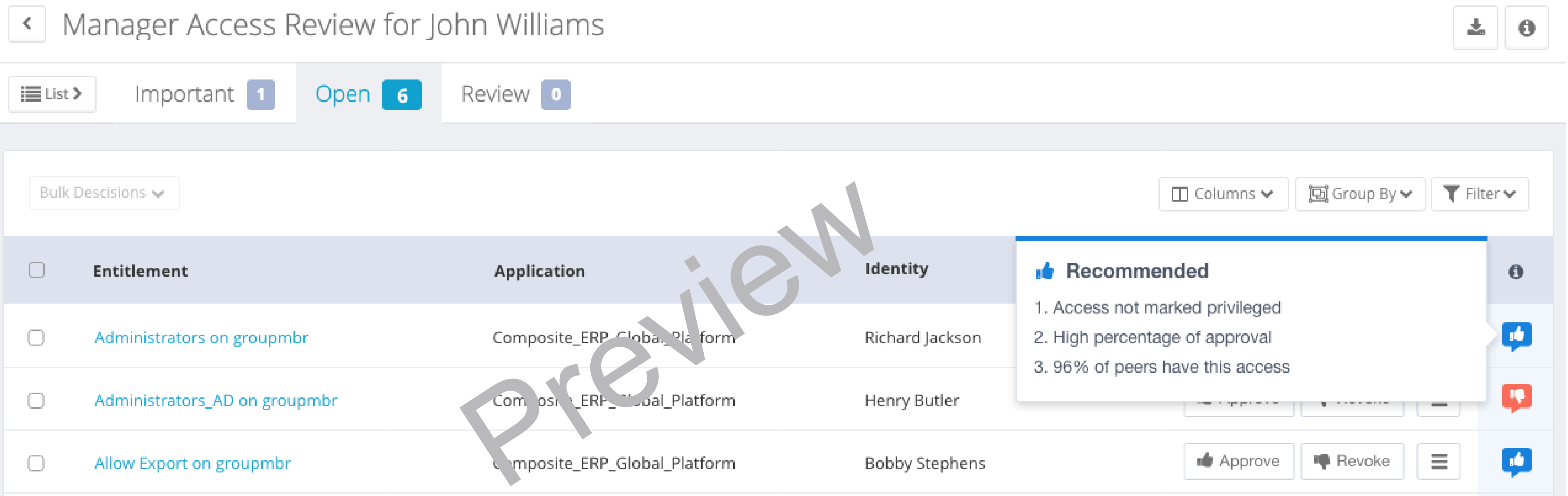
Comprehensive and Predictive Governance



Manager Access Review for John Williams

□	Entitlement	Application	Identity		
□	Administrators on groupmbr	Composite_ERP_Global_Platform	Richard Jackson		👍
□	Administrators_AD on groupmbr	Composite_ERP_Global_Platform	Henry Butler		👎
□	Allow Export on groupmbr	Composite_ERP_Global_Platform	Bobby Stephens	Approve Revoke ☰	👍

Recommended

1. Access not marked privileged
2. High percentage of approval
3. 96% of peers have this access

Preview

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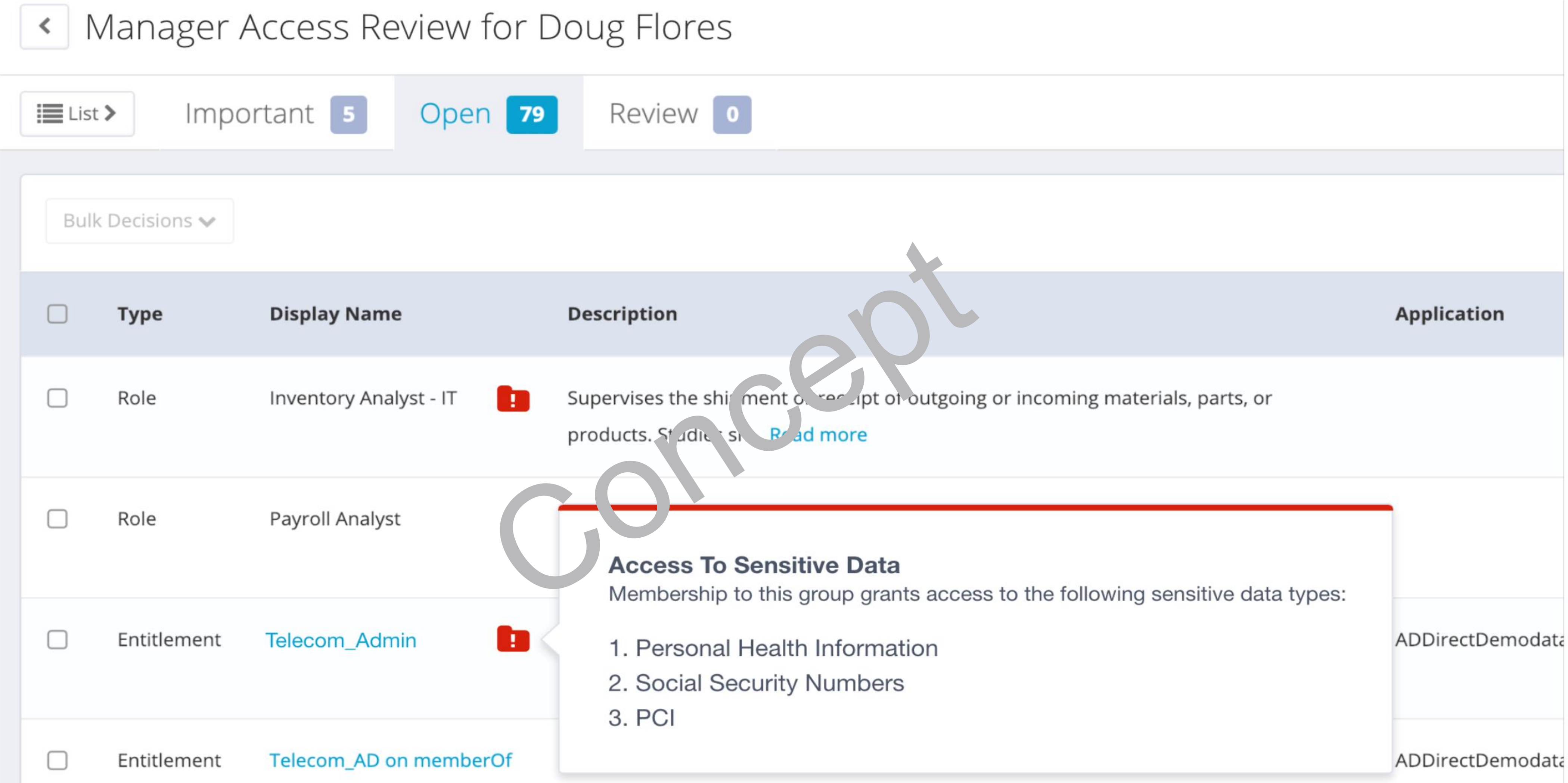
Access Review Context



‹ Manager Access Review for Doug Flores

□	Type	Display Name		Description	Application
□	Role	Inventory Analyst - IT	!	Supervises the shipment or receipt of outgoing or incoming materials, parts, or products. Studies s Read more	
□	Role	Payroll Analyst			
□	Entitlement	Telecom_Admin	!		ADDirectDemodata
□	Entitlement	Telecom_AD on memberOf			ADDirectDemodata

Access To Sensitive Data
Membership to this group grants access to the following sensitive data types:

1. Personal Health Information
2. Social Security Numbers
3. PCI

Concept

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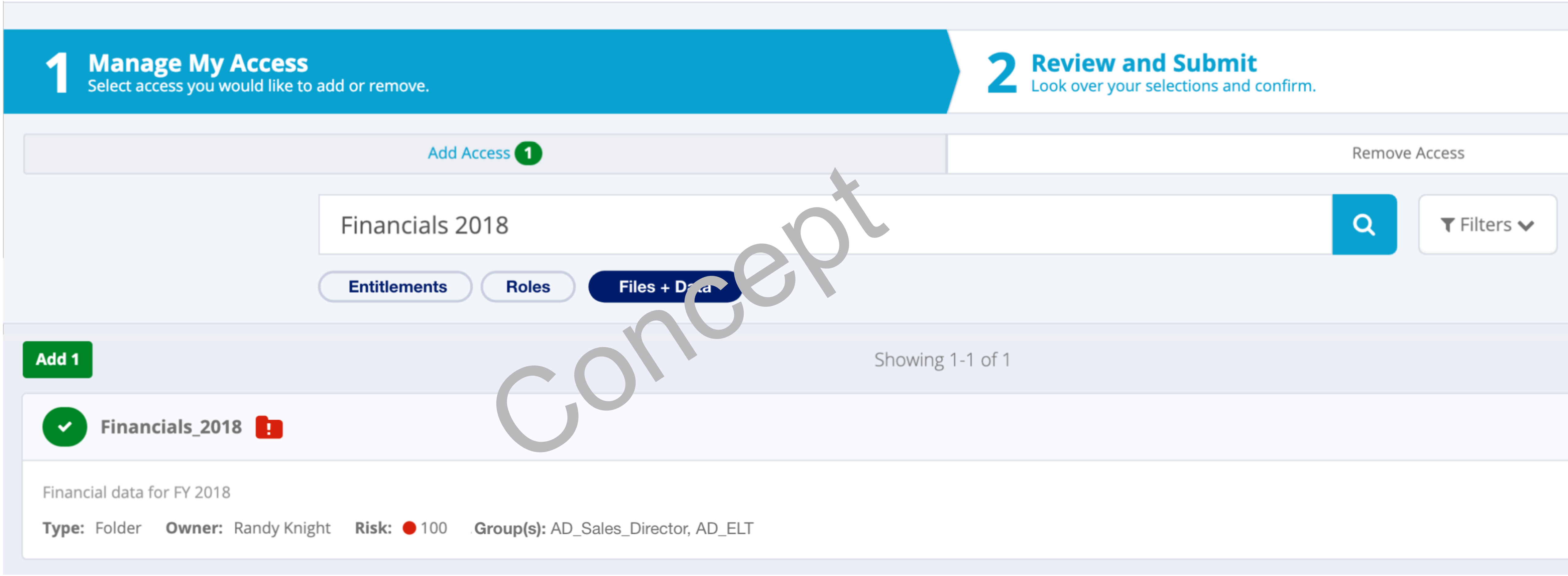
Access Request Context



1 Manage My Access
Select access you would like to add or remove.

2 Review and Submit
Look over your selections and confirm.

Financials 2018

Showing 1-1 of 1

Financials_2018

Financial data for FY 2018

Type: Folder **Owner:** Randy Knight **Risk:** ● 100 **Group(s):** AD_Sales_Director, AD_ELT

Concept

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Business Process Improvements

- Allow users to attach documents/images during access request
- Expanding the new Access Request Approvals page
- Handling expired exceptions
- Adding IP addresses to audit logs

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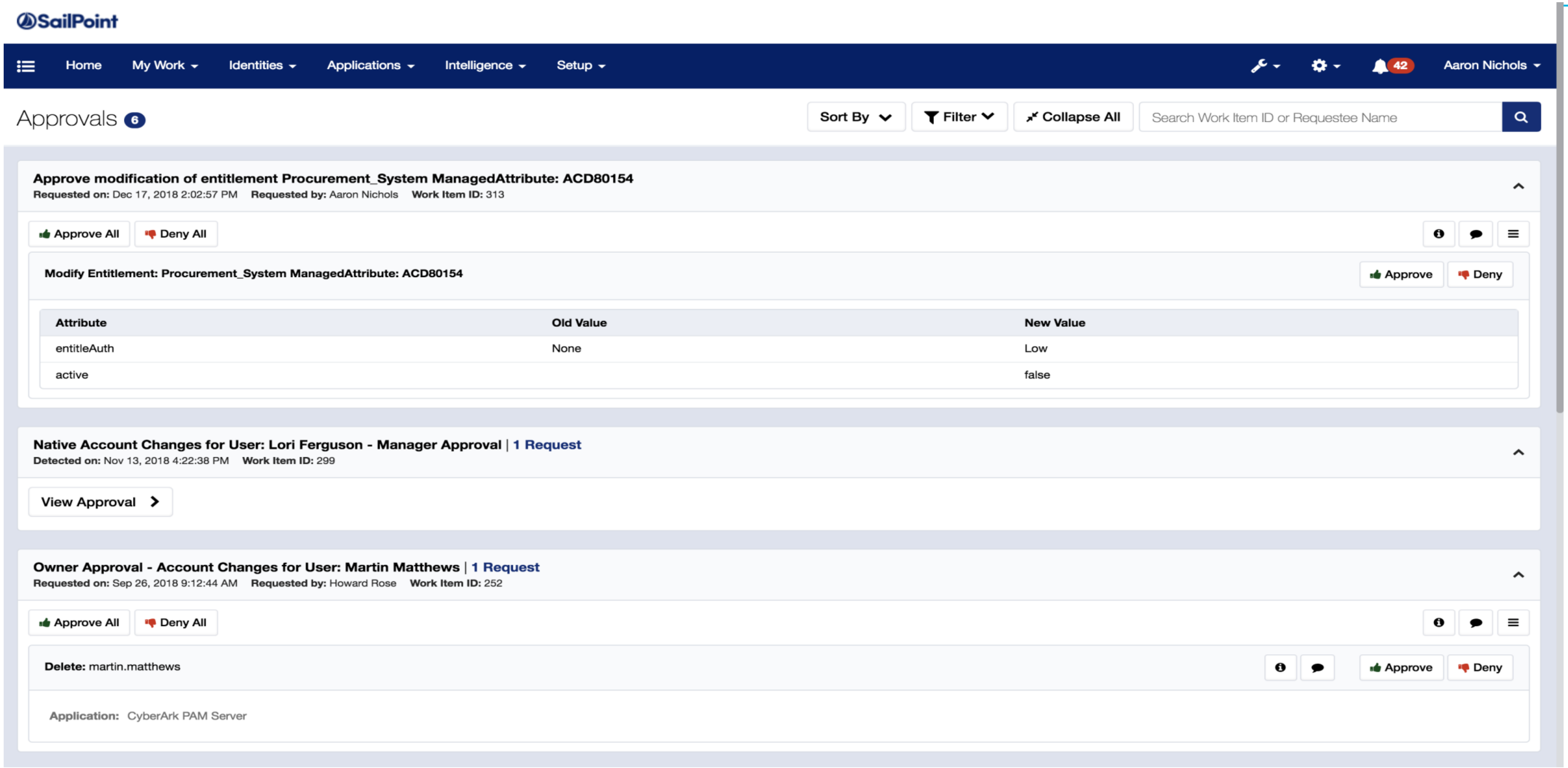
Approvals Page



Approvals 6

Approve modification of entitlement Procurement_System ManagedAttribute: ACD80154
Requested on: Dec 17, 2018 2:02:57 PM **Requested by:** Aaron Nichols **Work Item ID:** 313

Modify Entitlement: Procurement_System ManagedAttribute: ACD80154

Attribute	Old Value	New Value
entitleAuth	None	Low
active		false

Native Account Changes for User: Lori Ferguson - Manager Approval | 1 Request
Detected on: Nov 13, 2018 4:22:38 PM **Work Item ID:** 299

Owner Approval - Account Changes for User: Martin Matthews | 1 Request
Requested on: Sep 26, 2018 9:12:44 AM **Requested by:** Howard Rose **Work Item ID:** 252

Delete: martin.matthews

Application: CyberArk PAM Server

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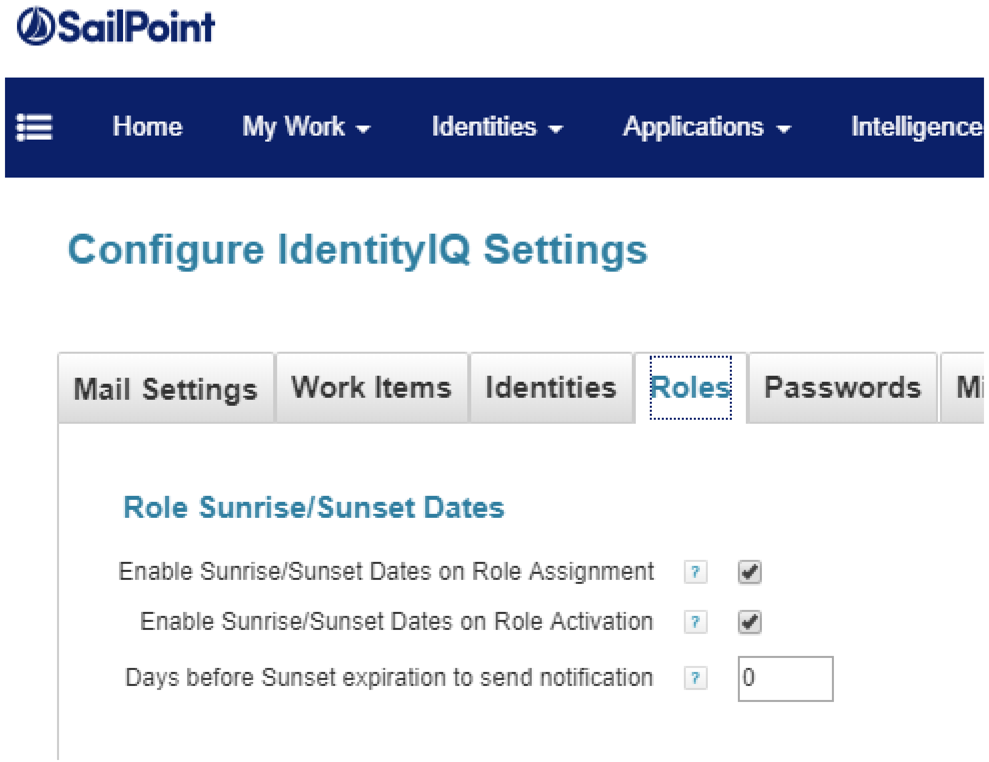
Configuration – Enable Sunrise/Sunset



Configure IdentityIQ Settings

Role Sunrise/Sunset Dates

Enable Sunrise/Sunset Dates on Role Assignment ☑

Enable Sunrise/Sunset Dates on Role Activation ☑

Days before Sunset expiration to send notification 0

Gear->Global Settings->IdentityIQ Config->Roles tab

- Controls whether sunrise/sunset dates are allowed for LCM Access Request roles & entitlements
- Also supports sunrise/sunset for role at activation time
- Adding notification window option
- “Days before Sunset…”
  - value of 0 (default) means no notification.
  - otherwise, specify # of days in advance to notify
- Controls notifications of sunsets for *both* LCM access requests and certification exceptions

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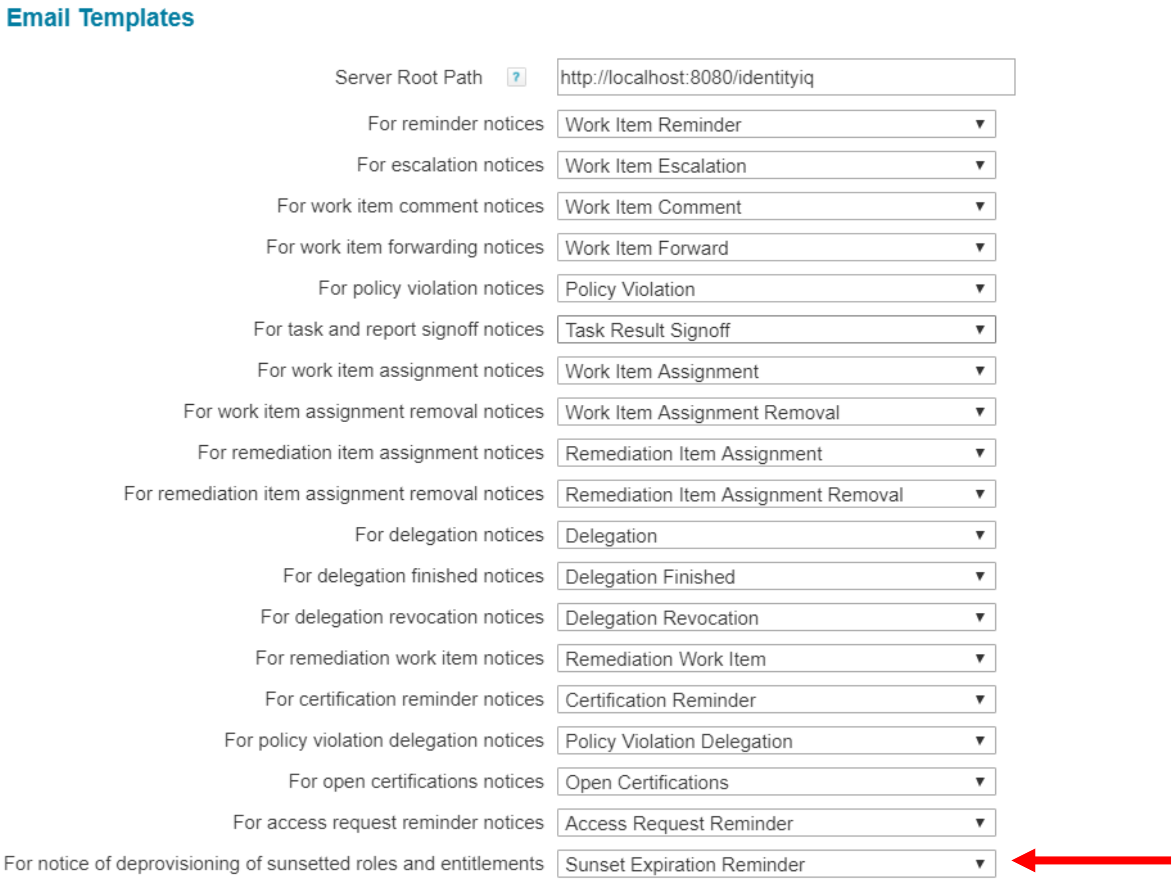
Configuration – Part 2 – Email Notification Template



Email Templates

Server Root Path	http://localhost:8080/identityiq
For reminder notices	Work Item Reminder
For escalation notices	Work Item Escalation
For work item comment notices	Work Item Comment
For work item forwarding notices	Work Item Forward
For policy violation notices	Policy Violation
For task and report signoff notices	Task Result Signoff
For work item assignment notices	Work Item Assignment
For work item assignment removal notices	Work Item Assignment Removal
For remediation item assignment notices	Remediation Item Assignment
For remediation item assignment removal notices	Remediation Item Assignment Removal
For delegation notices	Delegation
For delegation finished notices	Delegation Finished
For delegation revocation notices	Delegation Revocation
For remediation work item notices	Remediation Work Item
For certification reminder notices	Certification Reminder
For policy violation delegation notices	Policy Violation Delegation
For open certifications notices	Open Certifications
For access request reminder notices	Access Request Reminder
For notice of deprovisioning of sunsetted roles and entitlements	Sunset Expiration Reminder

Gear->Global Settings->IdentityIQ Config->Mail Settings

New email template called "For notice of deprovisioning of sunsetted roles & entitlements"

Same email template used in both LCM access request sunset and certification exception sunsets

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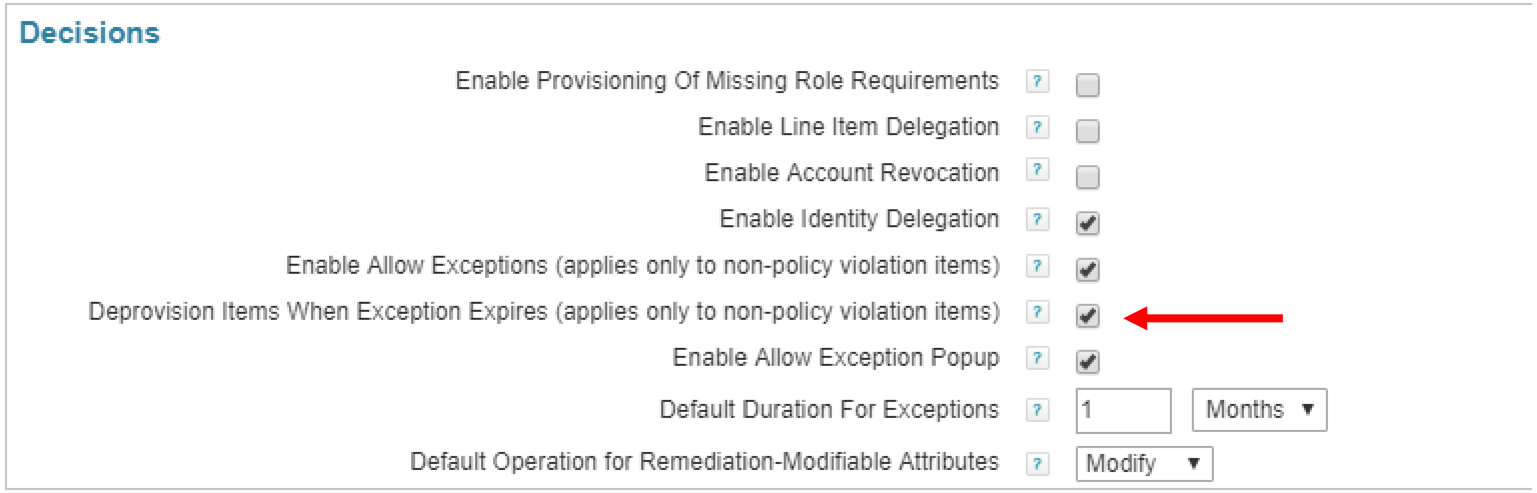
Configuration – Part 3 – Auto deprovisioning of exceptions



Decisions

Enable Provisioning Of Missing Role Requirements	?	□
Enable Line Item Delegation	?	□
Enable Account Revocation	?	□
Enable Identity Delegation	?	☑
Enable Allow Exceptions (applies only to non-policy violation items)	?	☑
Deprovision Items When Exception Expires (applies only to non-policy violation items)	?	☑
Enable Allow Exception Popup	?	☑
Default Duration For Exceptions	?	1 Months ▼
Default Operation for Remediation-Modifiable Attributes	?	Modify ▼

Gear->Compliance Manager, Decisions section
New option: “Deprovision Items When Exception Expires …” (dependent on “Enable Allow Exceptions”)

Note that you can set deprovisioning on cert exceptions independently from sunrise/sunset of roles & entitlements in access requests

Option/override is available in both classic and Targeted Cert scheduler (Advanced Options)

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Improvements to the Plug-in Framework

- Allow plug-in developers to create full page configurations settings page separate from the plug-in
    - SailPoint Forms
    - Custom Javascript
- Allow plug-ins to be called from workflows or bean shell
- Improved plugin troubleshooting
    - Extend the console plugin command to list the installed plugins as well as the available classes from plugins
    - A new plugin setting to prohibit scripts from accessing plugin-loaded classes

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Cloud Optimization

- Continued improvement to our AWS and Azure platform support
- Support for Azure SQL
- Containerization

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Accelerator Pack

- Ability to test and export AP settings to different environments like dev, QA and production
- Improve the user interface
- Add support for birthright roles and other functionalities that still need to be performed manually outside of the Accelerator Pack
- Add support for prune, archive and clean the IdentityIQ database
- Add support for batch terminate functionality

*Note: Accelerator Pack updates will not Always be released with an IdentityIQ release

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Connectivity

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Connectivity Investment Themes

Connectors Released in 2018

New Connectors Planned in 2019

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Connectors & Integrations Released in 2018

- Direct Connectors
    - Okta
    - SAP SuccessFactors
    - PeopleSoft Campus Solutions
    - SAP S/4 HANA (on premises)
        - SAP BW, SAP PI, SAP CRM
    - AWS Governance Module
    - SAP Governance Module
- Standards-Based Connector Support
    - Slack (SCIM)
    - Workplace by Facebook (SCIM) + 15 more

2019 Roadmap for Active Directory and Azure

Active Directory

- Move/Rename Accounts and Groups
- Multiple Forest in IdentityNow
- Secure Communication on IQ Service & HA

Azure

- Support for Office 365 Groups
- B2B and B2C users
- Azure IaaS

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2019 Roadmap for SAP and SAP Cloud

SAP Cloud

- SAP S/4 HANA Cloud Connector
- Schema extn for SAP SuccessFactors

SAP On Premise

- Position based provisioning
- Inactive Records cycle for SAP HANA DB
- GRC 12
- SAP Fiori, SAP ADS, SAP Solution Manager
- SOD policies on basis of Auth Objects

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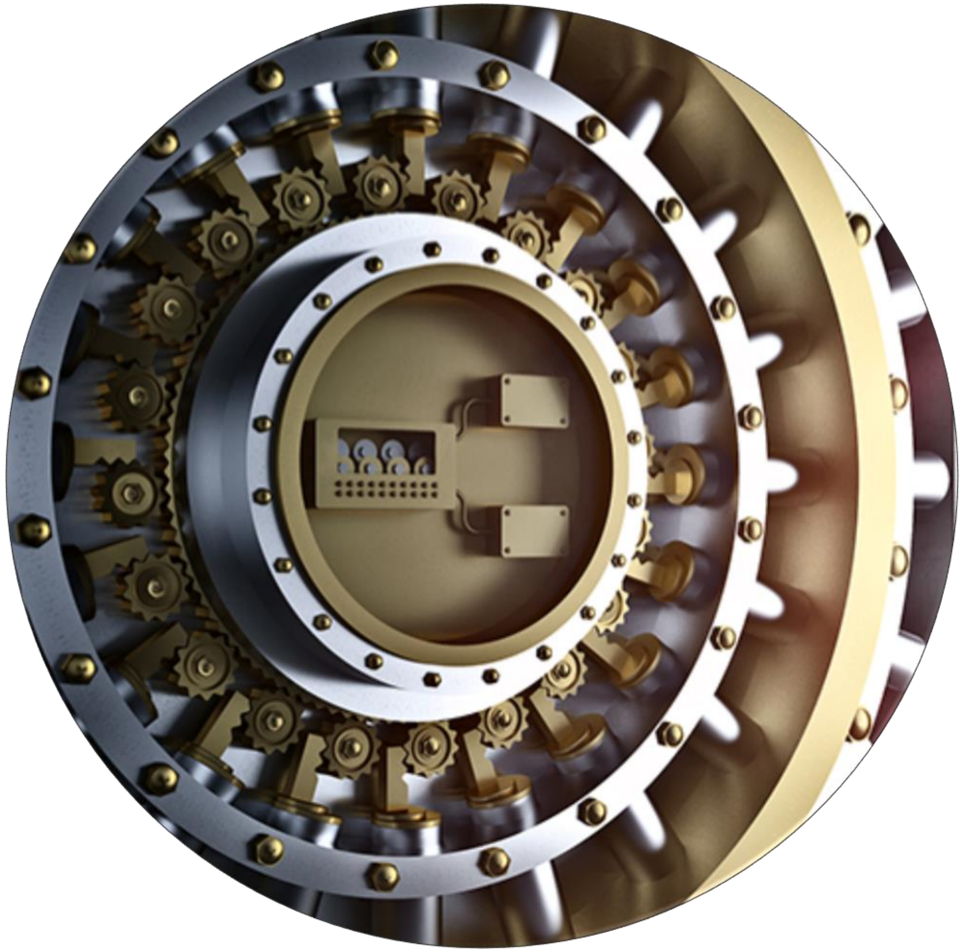
New Connectors Planned in 2019 - 2020

- Oracle Fusion HCM
- SAP S/4 HANA Cloud
- SAP Fiori
- Desktop Password Reset 7.3
- Azure Platform (IaaS Governance)
- Workday Financial
- Workday Student
- Blue Prism

- Ellucian Banner
- Fiserv
- Jack Henry
- MEDITECH
- SAP Concur
- ADP Vantage HCM
- Ultimate Software Ultipro
- SAP Ariba



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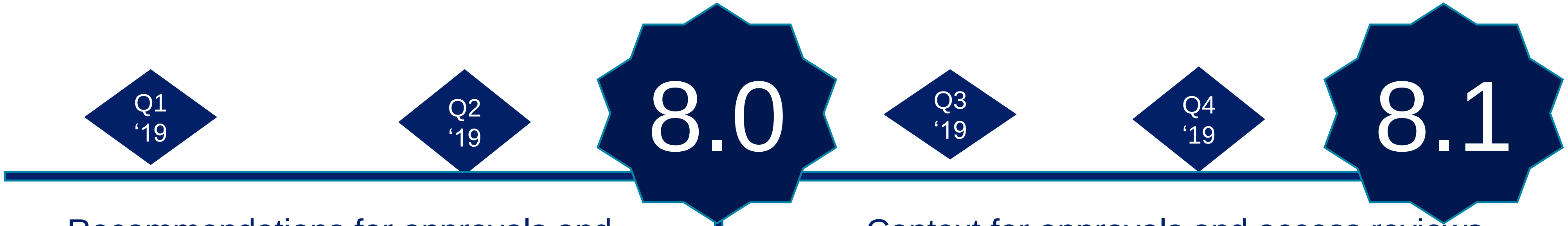
IdentityIQ Platform Release Plans for 2019



- Recommendations for approvals and access reviews
- Attachments during access request
- Plugin framework improvements
- Handling expired exceptions
- Additional approval types in new Approvals page
- Adding IP address to audit logs
- FAM additional APIs
- FAM stale data analysis improvements
- FAM audit logs, task auto-retry
- FAM validator
- FAM capabilities and scope
- FAM disaster recovery
- FAM new connectors

- Context for approvals and access reviews
- View all digital access on the Identity Cube
- Consolidated access certifications
- Consolidated access request and provisioning
- Consolidated policy for all digital access
- Data owner included in LCM
- Consolidated dashboards
- Common information architecture – consistent terminology, navigation, and authentication
- FAM permission forensics (migration)
- FAM AIP integration
- FAM new connectors

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