

ORACLE

CloudWorld

# Case Studies: Streamlining ERP Security and Assurance with Data-Driven Controls

PAN 3998

## Panelists



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Risk Cloud Product Strategy*



# Oracle RMC Solution for Global ITGC and SOD controls



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Corporation

**HAEMONETICS®**

## Overview

We are a global healthcare company dedicated to providing a suite of innovative medical products and solutions for customers, to help them improve patient care and reduce the cost of healthcare. Our technology addresses important medical markets: blood and plasma component collection, the surgical suite and hospital transfusion services.

We serve:



### PLASMA COLLECTION

We offer hardware and software technologies to enable plasma collections with the goal of improving yield, productivity, quality and donor experience in our customers' centers, helping to safely and reliably provide the source plasma that will become medicines for patients.



### HOSPITALS

We provide a range of solutions aimed at helping hospitals and clinicians provide the highest standard of patient care, while reducing operating and procedural costs and helping decision makers in hospitals optimize blood acquisition, storage and usage in critical settings.



### BLOOD COLLECTION

We are committed to helping blood centers manage blood collections safely, collect the blood components in the greatest demand and attract and retain the right donors. Our comprehensive portfolio is designed to enable our customers to provide safe, high-quality blood components to hospitals and their patients around the world.

[haemonetics.com](https://haemonetics.com) | [linkedin.com/company/haemonetics](https://linkedin.com/company/haemonetics)

NYSE: HAE

**~3,000**  
employees  
worldwide

**\$1.17**  
billion annual  
revenue (FY 23)

Business in  
**90+**  
countries



# Opportunity to reduce cost of compliance and increase confidence



## **Capturing productivity**

Lowering cost and freeing resource capacity through automation of routine monitoring and testing



## **Increasing risk insight**

Moving away from a sample-based approach to full population monitoring



## **Becoming proactive**

More regular monitoring increases the ability to influence change and prevent breakdowns



## **Answer the audit**

Ability to provide and feel confident to requests and questions from audit teams

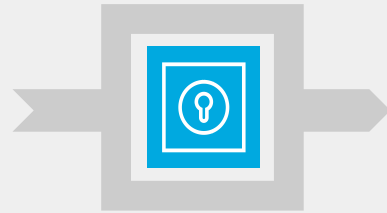
- 55 Access / SoD Monitors
- 15 Transactional Analytics
- 6 Change Control Tracking
- 1 User Recertification Template



**Over 1000 hours in annual manual effort to be significantly reduced by an estimated 50%**



# Approach to Security, Controls and RMC



## Role Design & Access Controls

Security and Access Control Activities including:

- Detailed security strategy & approach
- Role design as part of business process design
- Access controls (SoD / RA) aligned with role design
- Application security design and definition
- Validation of role design
- Security assignment review and approval during testing cycle

## Control Design w/ Risk Management

Control Design & RMC Activities including:

- Review of existing controls for advancement opportunities
- Identify and leverage application controls where possible as part of business process design
- Identify opportunities for automated controls or test of control for RMC
- Identify mitigating controls for RMC
- Document new control and test of control materials

## Validation & Continuous Monitoring

Validation and Monitoring Activities including:

- Confirm role design and assign against expected controls
- Support internal and external evaluation and feedback
- Monitor and confirm remediation of identified risks or issues prior to go live
- Continuous monitoring post go live
- Compliance and associated evidence for SOX controls

# Benefits to the three lines of defense

- Significant automation in testing controls
- Increase completeness w/100% population monitoring
- Improved oversight to system processing
- Release trapped capacity
- Transform audit and compliance approach



## Business Process Controls Monitoring

- **Automated configuration tracking and monitoring (AFC)**
- Pre-defined mitigating controls for known risk exposures

- **Exception-based controls (ALL)** reporting and testing

- **More reliance on business (AFC)**
- Audit by exception with 100% transaction analysis

## Security and Access Controls Monitoring

- **Functional insight into security roles (AAC)**
- Easy to read SOD conflicts with linked transaction impact

- **Granular SOD and restricted access reporting (AAC)**
- More timely visibility of sensitive configurations changes

- **Automated SOD & sensitive access tests (AAC)**
- Reduce effort with incremental monitoring vs. full population

## ITGC Controls Monitoring

- **Self-service dual-purpose reporting (ALL)** (daily operations and audit evidence)
- Identity Management integration without loss of fine-grain reporting

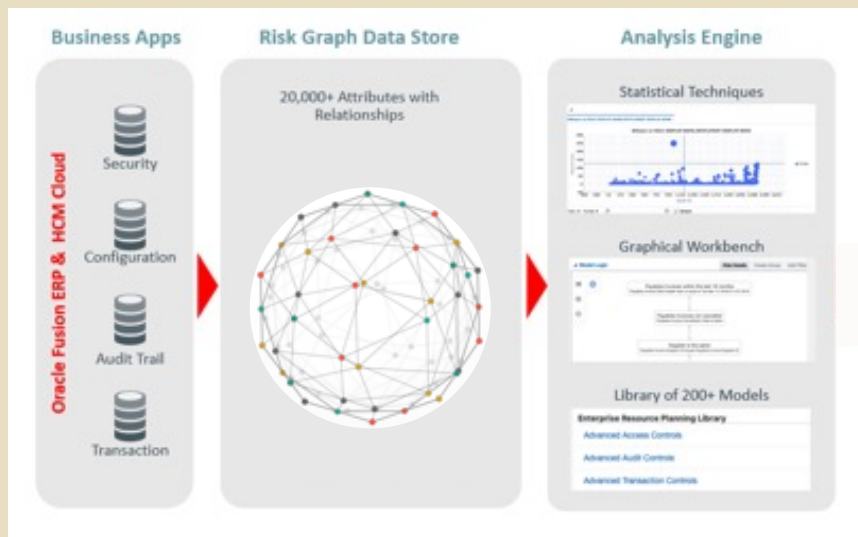
- **True insight into who can perform transactions (and who did) (ALL)**
- Increased audit quality and confidence

- **Reduced audit data requests (ALL)**
- Refocus saved time on higher risk areas



# Comprehensive coverage for Security, IT and Financial Controls

## Data Analysis & Algorithms



## Solution Areas

Risk Based Access

Actual SOD Monitoring  
Access Certifications

Transaction & Configuration Monitoring

Internal Controls

## Use Cases

- Advanced Access Requests
- Role Design Dashboard

- SOD/Sensitive Access Report
- Daily Access (SOD, RU, SA) Assurance
- Periodic & Continuous certifications

- Procure to Pay Assurance
- Record to Report Assurance
- Order to Cash Assurance
- Hire to Retire Assurance

- Internal Controls Repository
- Certification & Testing Workflow



Promotes collaboration with data analysis with business context and workflows

# Benefits and business value by stakeholders

## Management, CFO, CAO

- Increase investor & lender confidence with better financial & cybersecurity controls
- Increase productivity by replacing drudgery of compliance with data-driven automation
- Lower external audit fees
- More resilient to change (M&A) and disruptions (pandemic) with better monitoring of operations



## External Audit Team

- Ensure higher quality audit and reduces costs
- Save time with self-service access to the latest documentation, data and controls monitoring results



## Process Leads (Line 1) Control Owners

- Certify controls with confidence
- Assurance of policy compliance and authorized access
- Minimize manual effort and time spent on lower-value compliance tasks
- Prevent audit surprises and disruptions



## Risk & Controls Team (Line 2) Financial Governance, SOX

- Enhance exec and board level reporting
- Faster certification and testing cycle
- Enhance relationships with process owners with data-driven insights
- Standardize and automate control and governance processes
- Automate routine external audit requests for documentation, audit testing and controls monitoring results
- Eliminate need for 3rd party SOD analysis



## Fusion IT Team (Line 2) Security Admin

- Enforce security and access rules without adding friction to the business
- Assurance that ITGC controls for user access, configurations are effective
- Design and test (both functional and data access) in roles
- Eliminate need for large audit data extracts and related governance
- Better prepared to stop and respond to data breaches



## Internal Audit (Line 3)

- Focus on higher risk areas by automating routine data analysis & monitoring tasks
- Provide practical insights to improve operations using better analytics
- Easier collaboration with process owners while remaining independent
- Better manage scope and negotiations of external audit engagements with reliance on automated internal controls





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Thank you

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### *Start Before Go-live*

- ✓ *Activate Access Controls*
- ✓ *Design Roles and User Profiles by simulating potential violations*

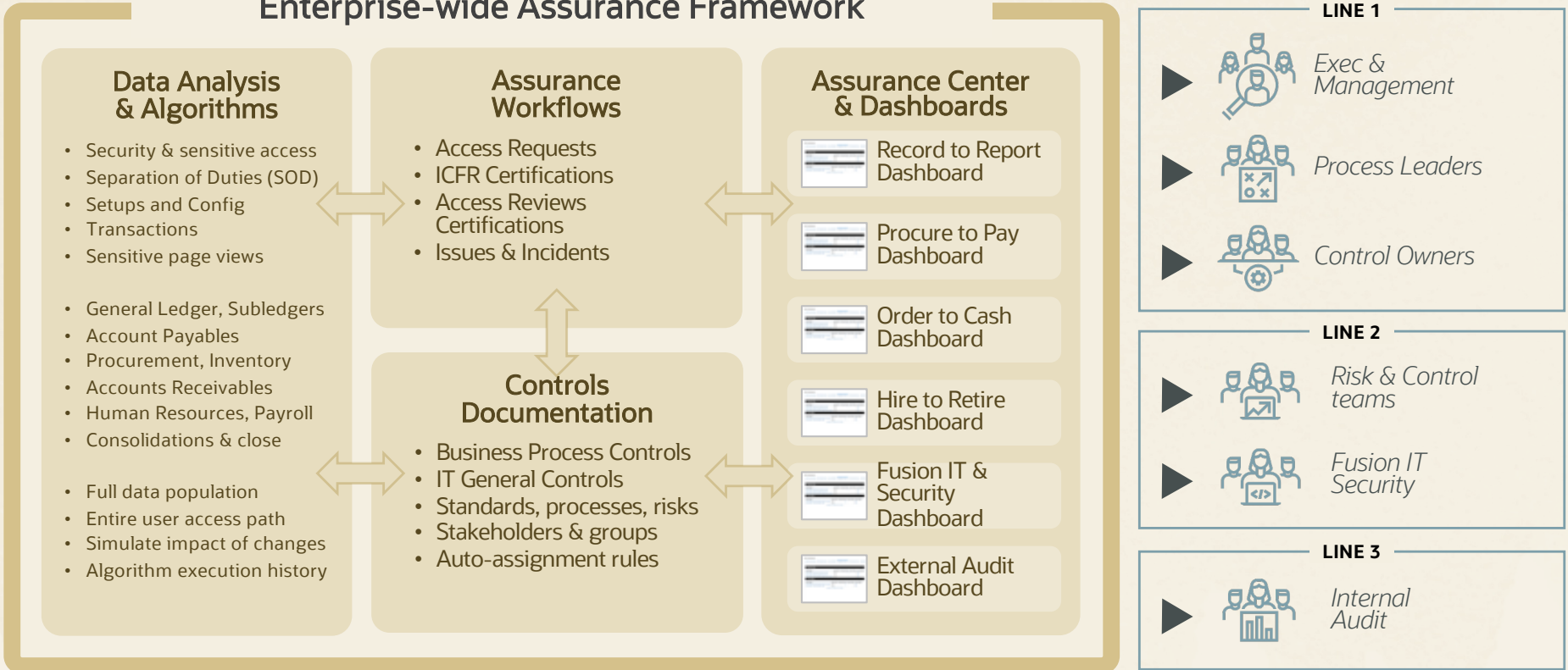


### *Go-live*

- ✓ *Periodic and event driving User Certifications*
- ✓ *Compliant provisioning*
- ✓ *Daily monitoring for Admin access*
- ✓ *Daily monitoring for users with SOD risk*
- ✓ *Daily monitoring for users that have committed SOD violations*
- ✓ *Daily monitoring for viewing sensitive employee data*

# One connected system of data-driven security, IT and financial controls

## Enterprise-wide Assurance Framework



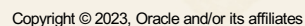
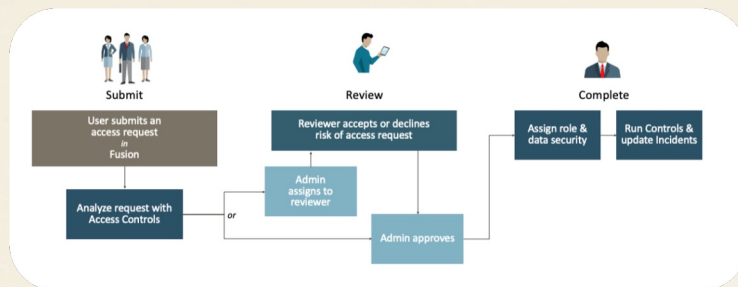


# Automate ERP access requests with embedded risk analysis

## Manual granting of access



Automated – saving 100s of hours annually





# Traditional SOD Controls are inadequate; Cloud provides proof positive

## Traditional Approach

Detects potential  
SOD risks

Analysis on access  
configuration data

Usually runs  
1 or 2 times a year

Requires extracting  
data using scripts

Typically costs ~\$100  
to 200k per year

Results managed  
using email  
spreadsheets



## Risk Cloud Approach

Detects potential &  
actual SOD violation

Analysis on millions of  
transactions and access  
configuration data

Daily and on-demand

Built-in to Fusion

One of many use cases

Faster, cheaper, more  
accurate and relevant

Results sent to risk owner with  
dashboards and tracking

SOD Transaction Report									
Supplier and Payables Invoices Created by Same User		Payment Process Request Created by Same User		Suppliers and Purchase Orders Managed by the Same User		Customers and Receivables Invoices Managed by the Same User			
Invoices		Payment Process Requests		Purchase Orders		Invoices			
132		2		104		173			

**PTP-40001 Supplier and Payables Invoices created by the same user**

Identify payables invoices created in the last six months by the user who created the corresponding supplier or supplier site

Invoice Created By: CHRISTIAAN.DERODE

Supplier Name	Site Name	Invoice Amount	Invoice Number	Invoice ID	Invoice Date	Supplier Created By	Site Location Created By
Midtown Computer Supplies	MCS Netherlands	1,172.49	FCTR_NL411549	MATTHIJS.SNEIDER	05/13/2021	CALVIN.ROTH	CHRISTIAAN.DERODE
Lee Supplies	Lee Netherlands	701.32	FCTR_411548	CHRISTIAAN.DERODE	05/13/2021	CALVIN.ROTH	CHRISTIAAN.DERODE
JGA	JGA Netherlands	337.59	ERS-286-403544	CHRISTIAAN.DERODE	05/13/2021	CALVIN.ROTH	CHRISTIAAN.DERODE

**PTP-40004: Payment Process Request created by the same user managing su**

Identify payment process requests created in the last twelve months where the same user created payment process and created or updated supplier

Supplier Created By: CASEY.BROWN

Supplier ID	Supplier Name	Supplier Type	Payee Name	Payment Process Request Identifier	Payment Process Request Name	Payment Process Request Business Unit	Payment Process Request Amount	Payment Process Request Date	Payment Process Request Status	Supp Upd
300000069320926	Internal Revenue Service	TAX AUTHORITY	Internal Revenue Service	123198	200604-chk-001	US1 Business Unit	640	06/08/2020	COMPLETED	laur
300000069320926	Internal Revenue Service	TAX AUTHORITY	Internal Revenue Service	146161	201008-chk-001	US1 Business Unit	89	10/08/2020	COMPLETED	laur

**PTP-40005: Suppliers and Purchase Orders managed by the same user**

Identify purchase orders updated in the last six months where the same user created or updated suppliers and purchase orders

Supplier Created By: CALVIN.ROTH

Supplier Name	Supplier Number	Supplier Type	Purchase Order Number	Purchase Order Creation Date	Purchase Order Type	Purchase Order Status	Business Unit Name	Purchase Order Line Number	Purchase Order Created By
Amazon	1343		6225	05/05/2021	CONTRACT	OPEN	Japan Business Unit		MAKOTO.KIKUCHI
American Telephone and Telegraph	1259		162540	08/20/2015	STANDARD	CLOSED	US1 Business Unit	1	AMY.MARLIN

# Daily P2P assurance dashboards

## Traditional Approach

Custom excel or BI reports requiring regular extraction of production data with SQL scripts

Results managed using email spreadsheets



## Risk Cloud Approach

Activate library of seeded P2P algorithms e.g.:

- Backdated POs
- Duplicate Invoices
- Duplicate Suppliers and Sites
- Invoices for One-Time Suppliers with Similar Names
- Frequent changes to Bank Accounts
- Contract Payment Terms Different than Invoices
- Changes to Supplier Bank Accounts on a Weekend

Author new algorithms using a graphical workbench

Track execution history of each algorithm including related findings and number of records that were examined

Results sent to risk owner with dashboards and tracking

**vision**  
Risk Management Dashboard

Assurance Dashboard for Procure to Pay

Latest Results for Advanced Automated Controls

Advanced Control Name	# Pending Incidents	Last Run Date
C3-PTP-30001: Duplicate Payables Invoices	0	10/4/22
C3-PTP-30002: Duplicate Suppliers and Sites	0	10/4/22
C3-PTP-30003: Backdated Purchase Orders	0	10/4/22
C3-PTP-60001: New Bank Account Added to Supplier	0	10/4/22
C3-PTP-60002: Changes to Supplier Bank Accounts	0	10/4/22
C3-PTP-6390-40001: Supplier and Payables Invoices Created by the Same User	1	10/4/22
C3-PTP-6390: Create Suppliers and Create Payables Invoices	0	10/4/22
C3-PTP-6410-40005: Suppliers and Purchase Orders Managed by the Same User	0	10/4/22
C3-PTP-6410: Create Suppliers and Create Purchase Orders	0	10/4/22
C3-PTP-9802: Sensitive Payment Privileges	0	10/4/22

Advanced Control Run History  
Details of each run of the selected Advanced Control is displayed below

Advanced Control Name	C3-PTP-6390: Create Suppliers and Create Payables Invoices					
Job ID	Run Date	Run By	Existing Incidents	New Incidents	Total Incidents	System C
657343	27-09-2022 09:39:55.525	PHILIPAINT	1729	1203	2982	30
663346	04-10-2022 11:29:35.232	PHILIPAINT	2982	0	2982	0
663344	04-10-2022 09:29:29.041	PHILIPAINT	2982	0	2982	0
663369	04-10-2022 08:28:57.556	PHILIPAINT	2988	0	2988	0
663343	04-10-2022 07:30:13.075	PHILIPAINT	2982	0	2982	0
663368	04-10-2022 07:29:47.774	PHILIPAINT	2982	6	2988	0
662343	04-10-2022 05:29:43.094	PHILIPAINT	2982	0	2982	0
662358	04-10-2022 05:28:51.340	PHILIPAINT	2982	0	2982	0
663352	04-10-2022 03:29:54.688	PHILIPAINT	2982	0	2982	0
663340	04-10-2022 03:28:59.308	PHILIPAINT	2982	0	2982	0

Rows 1 - 10

One source of truth for security, IT and financial reporting controls

# Features that connect and align stakeholders

## Management, CFO, CAO

- Review Assurance dashboards
- Review ICFR certifications
- Monitor exceptions
- Monitor remediation plans



## External Audit Team

- Restricted access to:
  - Review Documented Internal Controls
  - Replace large data extraction requests with analysis using Risk Cloud
  - Rely on ICFR assurance dashboards



## Process Leads (Line 1) Control Owners

- Review Controls documentation
- Certify Process Controls
- Certify access to ERP users
- Review new access requests with SOD analysis
- Alerts for high risk transactions
- Alerts for high risk changes to setups and configurations
- Review Assurance dashboards
  - R2R, P2P, O2C & H2R



## Risk & Controls Team (Line 2) Financial Governance, SOX

- Manage Controls documentation
- ICFR Certifications workflow
- Audit testing workflow
- Automate Business Process Controls
  - Data analysis for Testing activity
  - Data analysis for Monitoring status
- Automate IT General Controls
  - Data analysis for Separation of Duties (SOD)
  - Data analysis for Sensitive access
  - Data analysis for Restricted access
- Review Assurance dashboards
  - R2R, P2P, O2C & H2R



## Fusion IT Team (Line 2) Security Admin

- Manage ITGC documentation
- Certify ITGC Controls
- Manage ERP access requests workflow with SOD analysis
- Monitor users viewing of sensitive HR data
- Automate security analysis for new Roles
- Review Assurance dashboards
  - IT users with admin access
  - IT users with Separation of Duties (SOD), Sensitive or Restricted access
  - High risk changes to setups & configuration



## Internal Audit (Line 3)

- Review Internal Controls
- Manage remediation plans
- Automate data analysis for audit testing
  - Full data population testing
  - Author new algorithms
- Review Assurance dashboards
  - R2R, P2P, O2C, H2R, IT Security

