

ORACLE

CloudWorld

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

PAN 3998

Panelists



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Risk Cloud Product Strategy*





EQUINIX

Oracle Risk Cloud



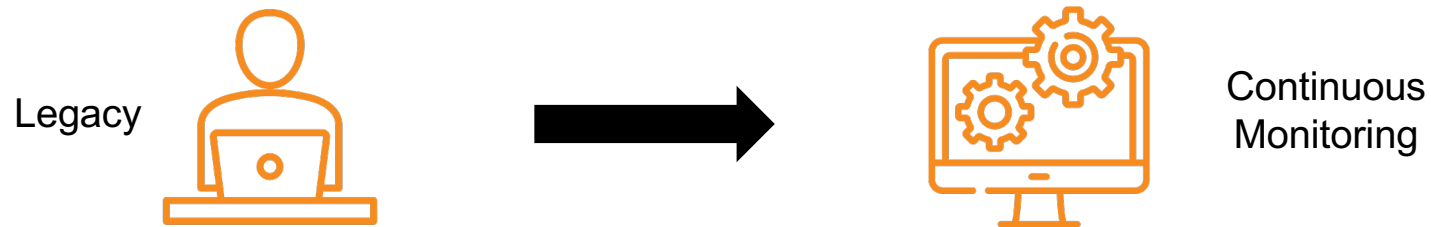


Introduction: Who are we

Equinix (NASDAQ: EQIX)

- World's digital infrastructure company™.
- Founded in 1998
- **10,000+** Customers
- **71** Markets
- **32** Countries
- **6** Continents

Need for Continuous Monitoring: Motivation



Reliance on Manual Controls

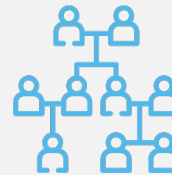
- Manual extraction for key SOX controls
- Do more to prove completeness and accuracy
- Dependency on IT resources
- Lack of audit trail

Continuous Monitoring

- Minimize manual intervention
- Improved visibility into transactional risk
- Proven solution with low maintenance
- Systematically record user activities
- Scalable

Need for Continuous Monitoring: Business Needs

ERP can get complex with the drivers being, and not limited to:



Introduction of new modules

- Users can now see more than what the previously did
- Do more than what they could in the legacy system

Quarterly releases

- Myriad of privileges and data security policies
- Releases requiring privilege validations

Expansion/Re-org.

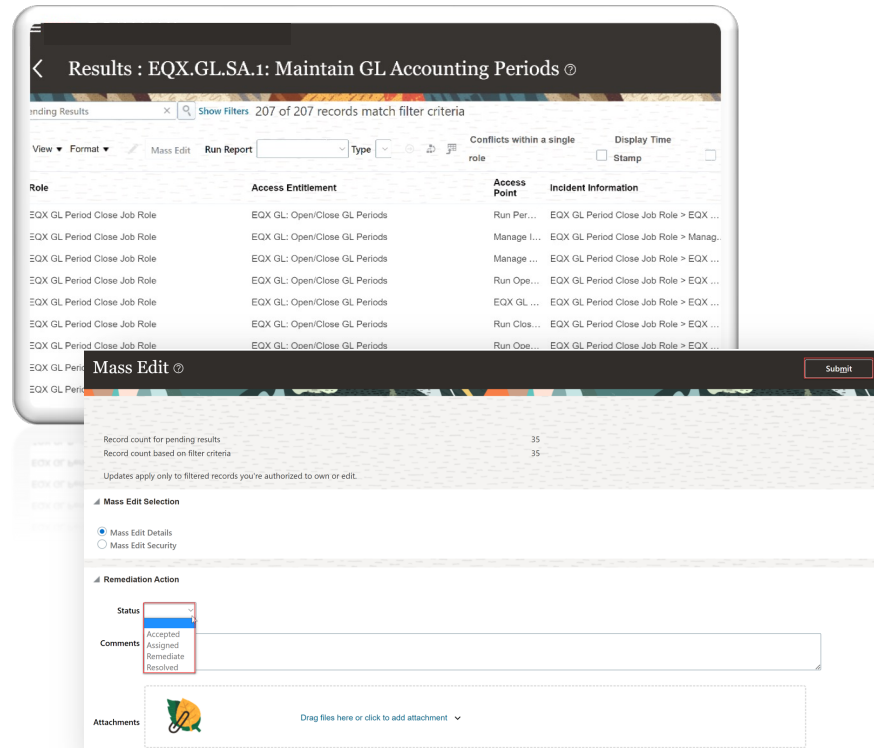
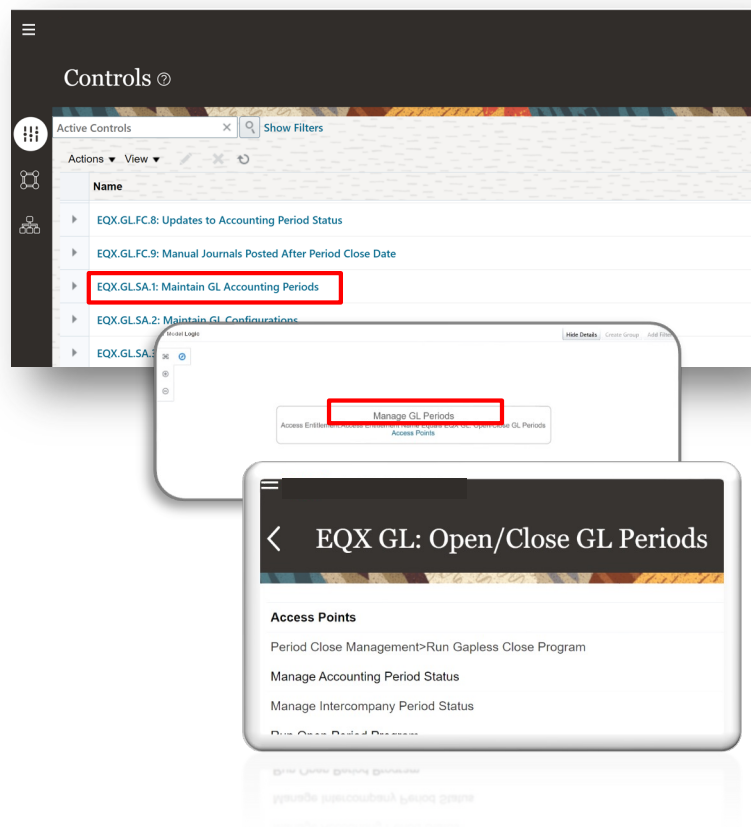
- Users with elevated, conflicting access
- Bot accounts
- The list goes on...

Continuous Monitoring solution

- Detect frequent changes to role design
- Access violations
- Transactions
- Provide actionable insights

Access Controls

Sample Access Rulesets & Incident Management



Transactions and Configuration Controls

Sample Rulesets & Incident Management

The screenshot shows the 'Controls' interface. At the top, there's a 'Controls' header with a search bar and 'Show Filters' button. Below it, a list of 'Active Controls' is displayed. One control, 'EQX.GLFC.2: Track Changes to GL Journal Sources', is highlighted with a red box. Below the list, a 'Model Logic' diagram is shown, also with a red box highlighting a specific logic flow: 'Journal sources changed in last 12 months' leading to three event types: 'Event Type - Journal Source Creation', 'Event Type - Journal Source Update', and 'Event Type - Journal Source Delete'.

The screenshot shows the incident management interface. At the top, it says 'ending Results' with a search bar and 'Show Filters' button. Below it, a table displays 16 of 41 records matching filter criteria. The table has columns for Result ID, Status, Audit - Journal Source Setup.User, Audit - Journal Source Setup.Event Type, Audit - Journal Source Setup.Date, Audit - Journal Source Setup Freeze Journals New, Audit - Journal Source Setup Freeze Journals Old, and Number of Occurrences. Below the table, a 'Mass Edit' form is visible, showing options for 'Mass Edit Details' and 'Mass Edit Security', and a 'Remediation Action' section with a status dropdown and a comments field.

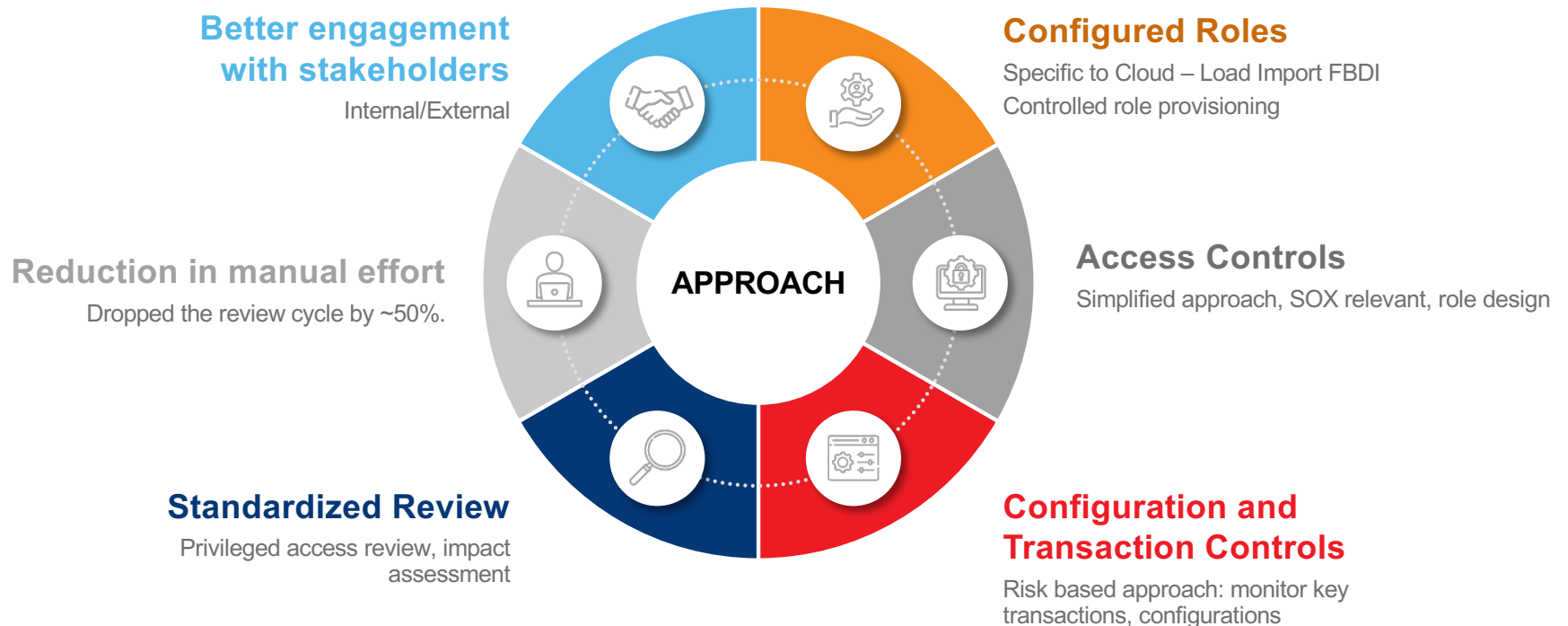
| Result ID | Status | Audit - Journal Source Setup.User | Audit - Journal Source Setup.Event Type | Audit - Journal Source Setup.Date | Audit - Journal Source Setup Freeze Journals New | Audit - Journal Source Setup Freeze Journals Old | Number of Occurrences |
|-----------|----------|-----------------------------------|---|-----------------------------------|--|--|-----------------------|
| 12007:26 | Assigned | | Object Data Update | 11/3/22 | Yes | No | 1 |
| 12007:27 | Assigned | | Object Data Update | 10/6/22 | No | Yes | 1 |
| 12007:28 | Assigned | | Object Data Update | 10/6/22 | Yes | No | 1 |
| 12007:11 | Assigned | | Object Data Update | 9/13/22 | | | 1 |
| 12007:13 | Assigned | | Object Data Update | 9/14/22 | | | 1 |
| 12007:14 | Assigned | | Object Data Update | 9/14/22 | | | 1 |
| 12007:15 | Assigned | | Object Data Update | 9/14/22 | Yes | No | 1 |
| 12007:16 | Assigned | | Object Data Update | 10/6/22 | No | Yes | 1 |
| 12007:17 | Assigned | | | | | | |

*Dependency on audit objects that is made available

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Key Takeaways: Risk Cloud Journey

Goal: Monitor user access and role changes for segregation of duties(SOD), and changes to audited configuration and operational data. Below is the approach of how we were able to achieve governance and compliance.



Where to Start?



Access Controls, User Access Certification

- Segregation of Duties (SOD) and Sensitive Access (SA)
- Embed role and user level SOD testing during implementation
- Role based User Access Review/Certification workflow



Configuration, Transaction Controls

- Monitor changes to configurations e.g., Enablement of JE Approval workflow
- Monitor changes to key transactions e.g., Duplicate Invoices

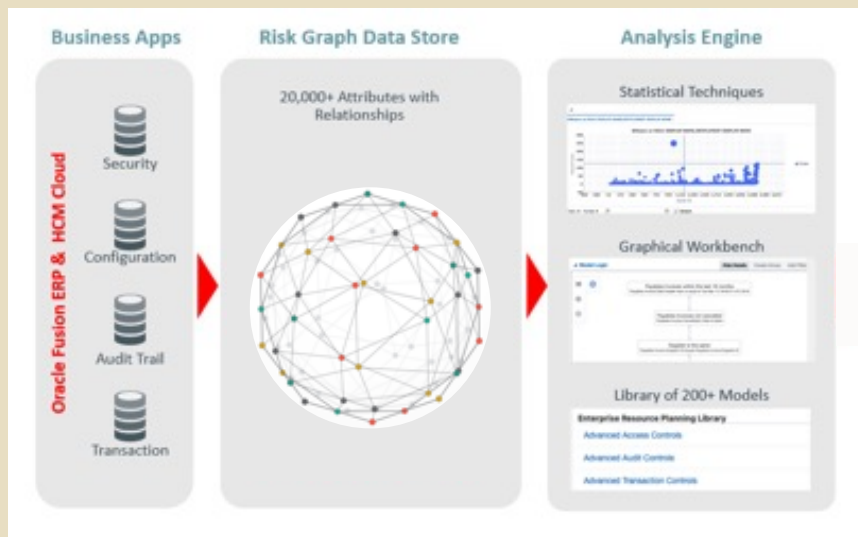


Financial Report Compliance

- End-to-end workflow to automate internal audit assessments, financial reporting certifications and compliance mandates

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



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



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



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



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





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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*

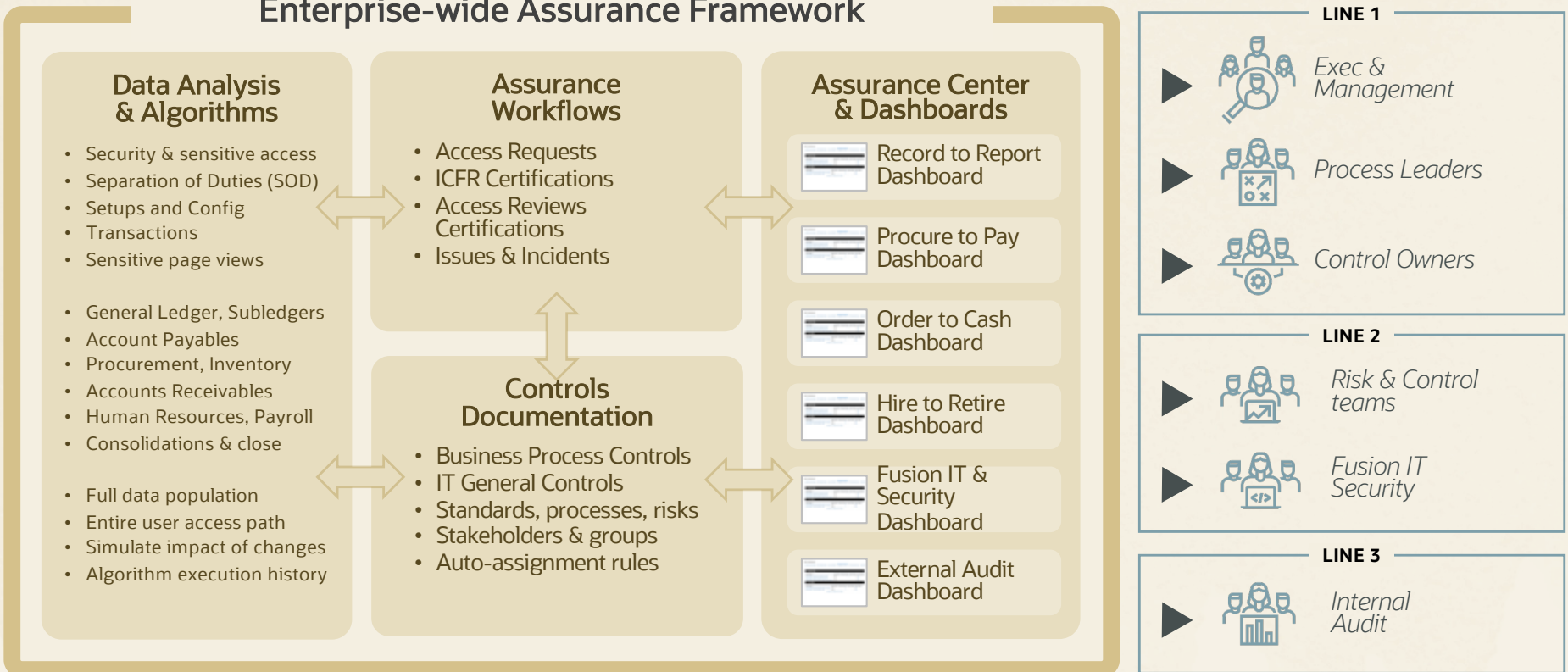


Go-live

- ✓ *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

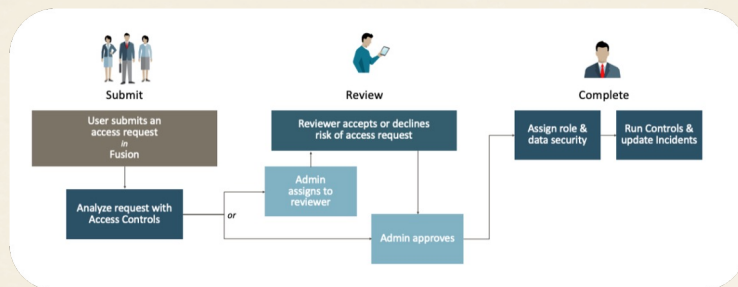


Automate ERP access requests with embedded risk analysis

Use of email or custom workflow app

- Exceptions and approvals in excel

Manual granting of access



Within Fusion ERP

Complete and Accurate
SOD risks in detail

Exception and comments
stored within Risk Cloud for
reporting

Automated – saving 100s of hours annually

vision

Casey Brown

Access Request Approvals

Lucy Farrier

... View Dashboard

Request ID
6001

Search for role name

☐ New Role Requests (0)
☐ Pending Review (0)
☒ Pending Approval (1)

☐ Approved (0)
☐ Rejected (0)

1 Roles

| | | | |
|--|-------------------|-------------------------|-----|
| <div>Accounts Payable Invoice</div> <div> <div>▼ Supervisor</div> Business Unit </div> | 2/4/23 Per mgr | <div>4 violations</div> | ... |
|--|-------------------|-------------------------|-----|

Approvals
Data Requests
Control Violations
Conflicting Roles
Worker Info

Controls with Violations 4 of 44

CI-PTP-5892: Maintain Supplier Bank Accounts and Create Payments

CI-RTR-6870: Enter Journals and Post Journal Entry

CI-PTP-9802: Sensitive Payment Privileges

CI-PTP-9801: Sensitive Supplier Privileges

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

Optimize Security Design SOD Controls for Compliance Accepted Incidents Review Access Certification **SOD Transaction Report**

| | | | |
|---|---|---|---|
| Supplier and Payables Invoices Created by Same User Invoices 132 | Payment Process Request Created by Same User Managing Suppliers Payment Process Requests 2 | Suppliers and Purchase Orders Managed by the Same User Purchase Orders 104 | Customers and Receivables Invoices Managed by the Same User Invoices 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

