GLOC

Great Lakes Oracle Conference

Monitoring and Supporting Security Change Management:

From determining risk to efficient and effective execution

MAY 15 & 16, 2019

CLEVELAND PUBLIC AUDITORIUM, CLEVELAND, OHIO

WWW.NEOOUG.ORG/GLOC

Agenda

- Introduction
- Process Overview
- Risk Assessment and Scoping
- Current State
- Remediation and Issues
- Implementing Process and Control

Introduction

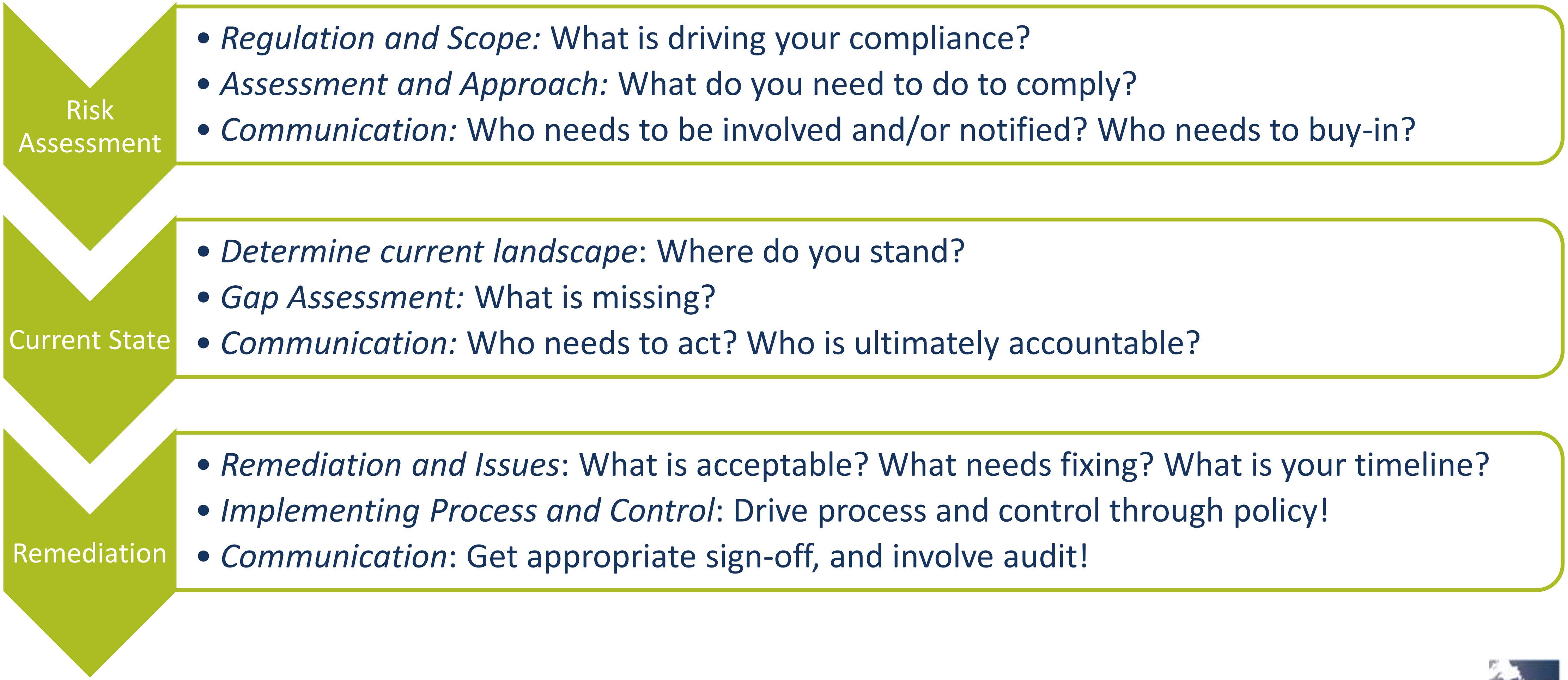
Frank Vukovits

- Director of Strategic Partnerships
- Certified Internal Auditor
- Certified Information Systems Auditor
- Twitter: @Fvukovits

Fastpath

- Founded in 2004
- Cloud-based Cross-Platform solution for Security, SoD, and Configuration management

Process Overview



Risk Assessment

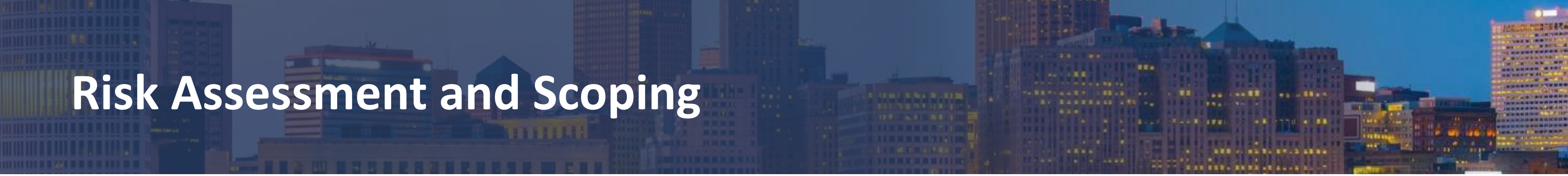
- *Regulation and Scope:* What is driving your compliance?
- *Assessment and Approach:* What do you need to do to comply?
- *Communication:* Who needs to be involved and/or notified? Who needs to buy-in?

Current State

- *Determine current landscape*: Where do you stand?
- *Gap Assessment:* What is missing?
- *Communication:* Who needs to act? Who is ultimately accountable?

Remediation

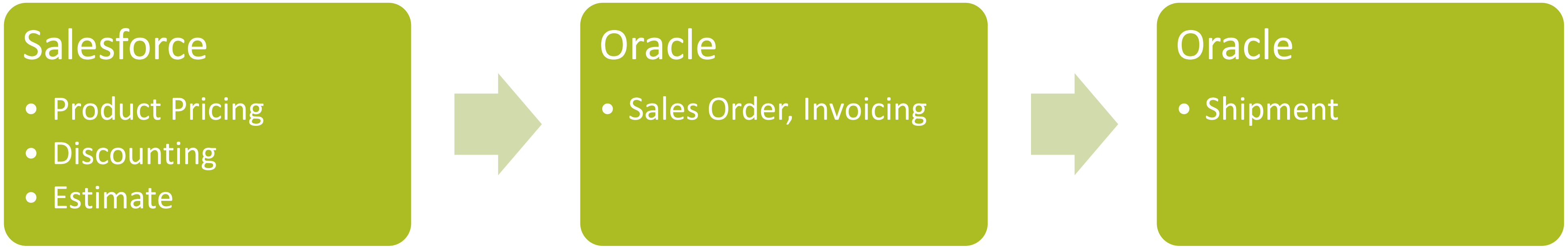
- *Remediation and Issues*: What is acceptable? What needs fixing? What is your timeline?
- *Implementing Process and Control*: Drive process and control through policy!
- *Communication*: Get appropriate sign-off, and involve audit!



Risk Assessment and Scoping

- Identify the audit driver (e.g. SOX, SOC, NIST, TPA) – Let’s use SOX
- Determine Risk Universe – Financial Statements driven
- Quantitative Materiality Assessment (e.g. ~1% of Revenue or ~2% of Equity or Working Capital)
- Qualitative Risk Assessment (e.g. Risk of Fraud or Significant Estimates)
- Determine related business processes
- Determine related financial systems
- Determine scope of procedures
- Define ‘Projected Baseline’ and Policy > Procedure > Control

What are you looking for?



Salesforce

- Product Pricing
- Discounting
- Estimate

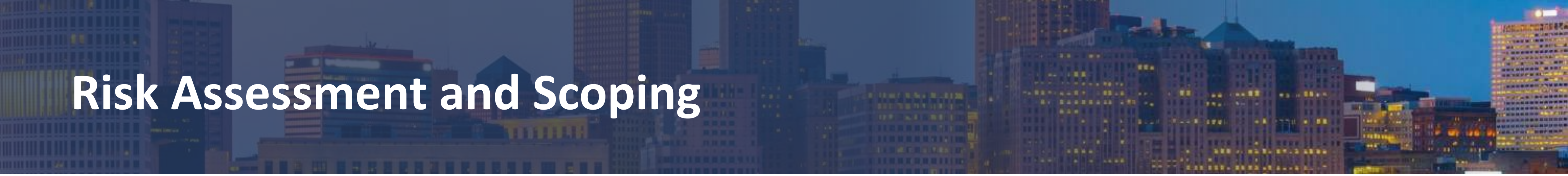
Oracle

- Sales Order, Invoicing

Oracle

- Shipment

Business Process	Systems	Access	Objects
Revenue Generation	Salesforce	Pricing & Discounting	• Security to related objects
	Oracle	Sales Order, Invoice & Shipment, Revenue Recognition	• Security to related objects • System configuration



Risk Assessment and Scoping

- Security should be focused on access to relevant objects and access to modify system configuration
- System configuration should be focused on key risk points – examples include:
  - Credit check, including categories
  - Debit/Credit Memo approval and threshold settings
  - Workflow configuration
  - Revenue Recognition: invoicing rules
- Don’t forget to consider system integrations, and related access and configuration!

Current State

Now that you have defined the details of what you are going to rely on for risk and compliance, you need to assess where you stand.

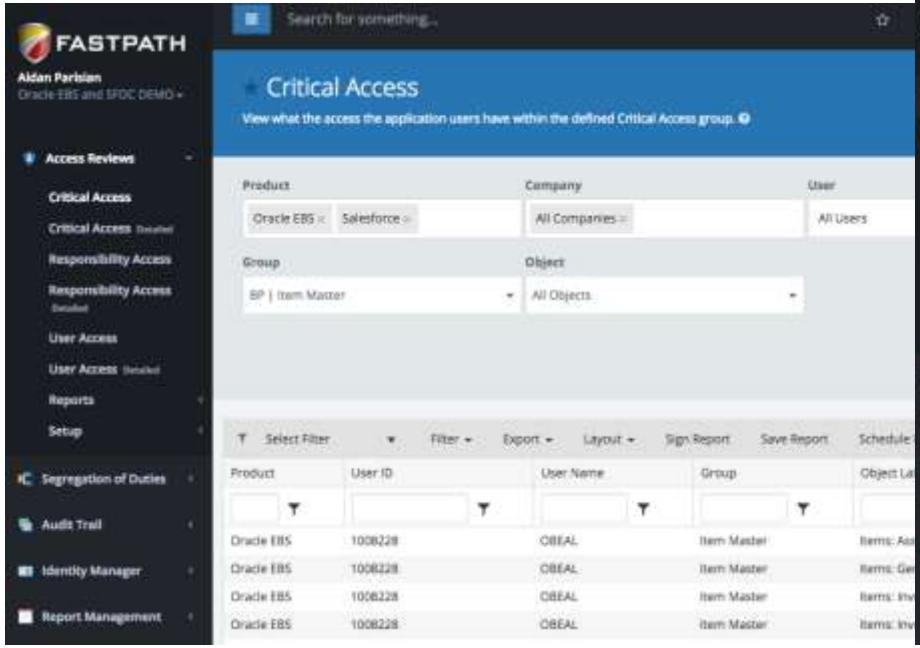
- Access Reporting
  - Look at those objects that you’ve defined to determine if issues exist
  - Look for conflicting access both inter- and intra-system, relying on your business process and risk assessment to guide the way
- Configuration Analysis
  - Look at your current system configuration to identify current settings
  - Look for company policies to drive configuration

Current State

- Gap Assessment
  - Be sure you’ve defined your optimal state as part of Risk Assessment and Scoping
  - Compare existence of policies to current state to identify gaps
  - Compare current security setup against projected baseline for gaps
  - Compare system configuration against projected baseline for gaps
- Communicate
  - Interim reporting to stakeholders is key to check initial assumptions and validate a path forward
  - Early communication to your auditors (both internal and external) is key – surprising your auditor is never a good idea!

Current State: Reporting

- Report on current state as scoped, being sure to obtain completeness and accuracy



Critical Access

View what the access the application users have within the defined Critical Access group.

Product: Oracle EBS × Salesforce ×

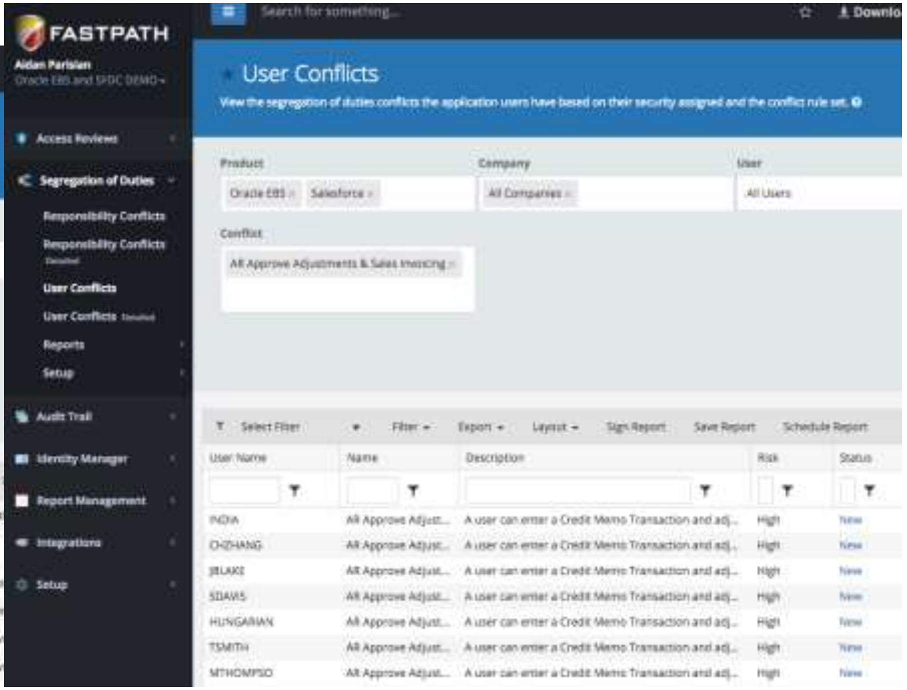
Company: All Companies ×

User: All Users

Group: BP | Item Master

Object: All Objects

Product	User ID	User Name	Group	Object La
Oracle EBS	1008228	OBEAL	Item Master	Items: Ac
Oracle EBS	1008228	OBEAL	Item Master	Items: Ge
Oracle EBS	1008228	OBEAL	Item Master	Items: Inv
Oracle EBS	1008228	OBEAL	Item Master	Items: Inv



User Conflicts

View the segregation of duties conflicts the application users have based on their security assigned and the conflict rule set.

Product: Oracle EBS × Salesforce ×

Company: All Companies ×

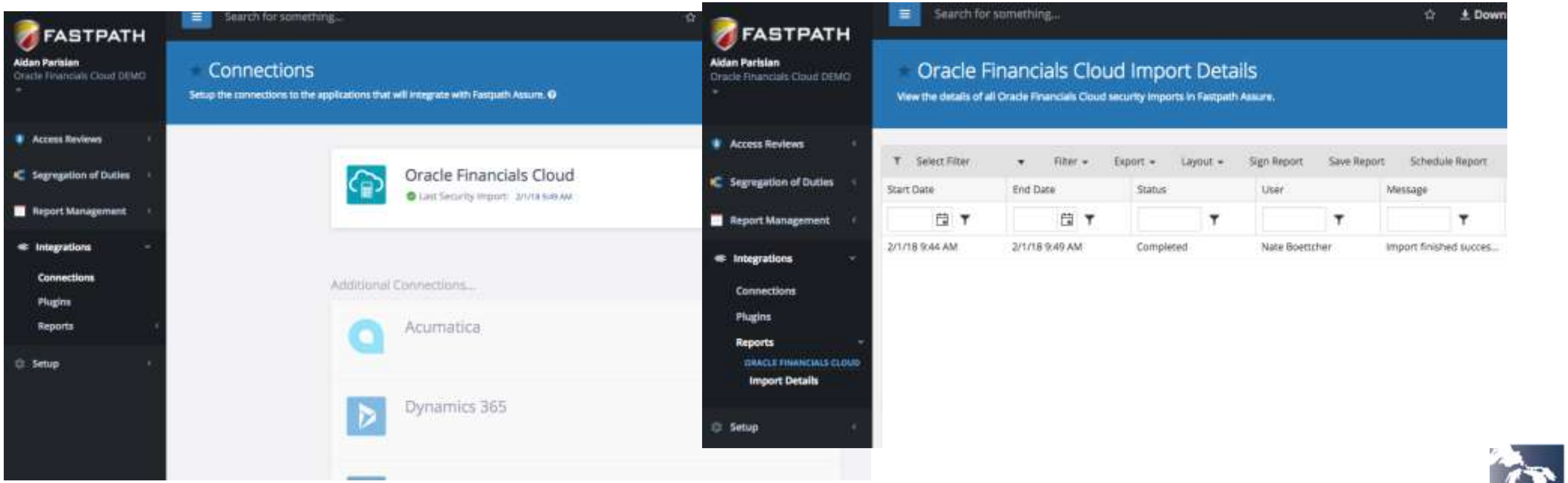
User: All Users

Conflict: AR Approve Adjustments & Sales Invoicing ×

User Name	Name	Description	Risk	Status
INDIA	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
CHZHANG	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
JBLAKE	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
SDAVIS	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
HUNGARIAN	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
TSMITH	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New
MTHOMPSO	AR Approve Adjust...	A user can enter a Credit Memo Transaction and adj...	High	New

Current State: Reporting

- Report on current state as scoped, being sure to obtain completeness and accuracy



Connections

Setup the connections to the applications that will integrate with Fastpath Assure.

Oracle Financials Cloud
Last Security Import: 2/1/18 9:49 AM

Additional Connections...

Acumatica

Dynamics 365

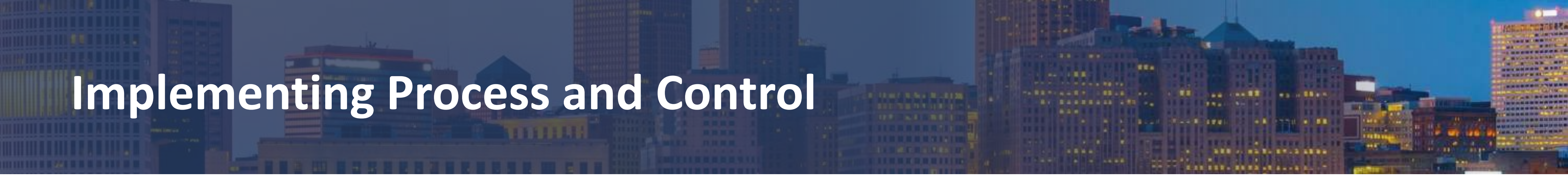
Oracle Financials Cloud Import Details

View the details of all Oracle Financials Cloud security imports in Fastpath Assure.

Start Date	End Date	Status	User	Message
2/1/18 9:44 AM	2/1/18 9:49 AM	Completed	Nate Boettcher	Import finished succes...

Remediation and Issues

- Once you have determined your gaps, rationalize that list into action vs. non-action
- Validate the two lists with stakeholders, get sign-off if possible
- Remediate those gaps you’ve determined are key
  - Implement new policies and procedures where necessary
  - Modify system security and configuration as needed
- Leverage reporting to provide the ‘new current state’
- Communicate back to stakeholders (including audit) that current setup is ”good to go!”



Implementing Process and Control

Change is constant – your ‘new current state’ will change, so you’ll need to monitor and support that with change management

- Annual revalidation of policy and procedures
- Implementation of controls to monitor change
- Implementation of controls to support change
- Rinse, repeat on an annual basis

Monitoring Controls

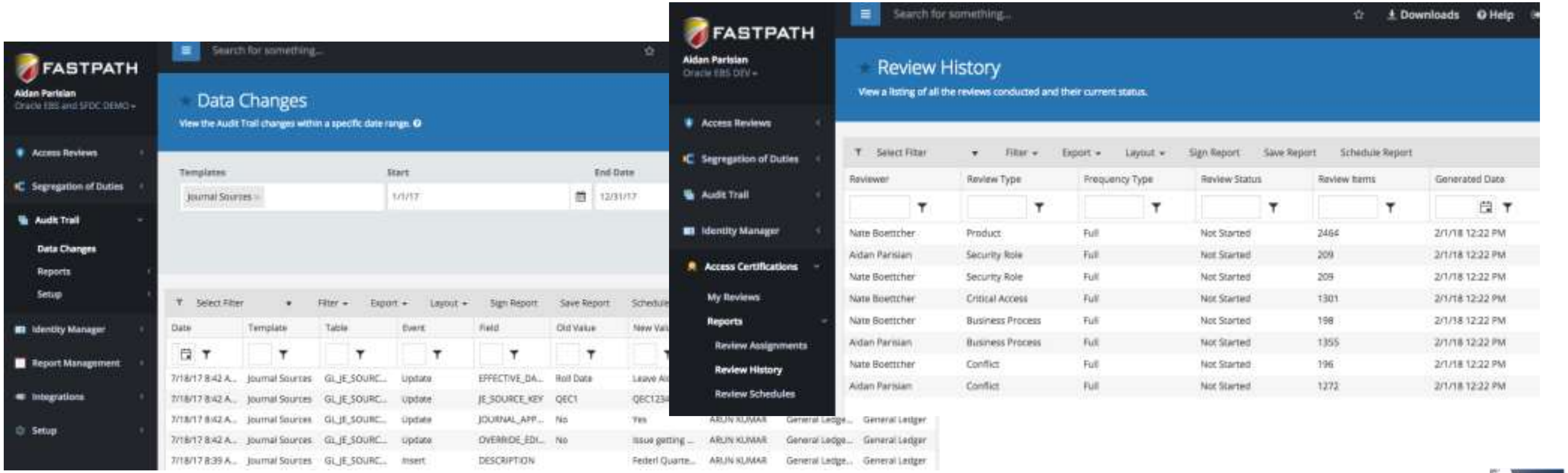
Detective Controls: those controls focused on monitoring ‘after the fact’

- Periodic access reviews based squarely in sound policy
  - User Access, including appropriateness and existence
  - Sensitive Access
  - Elevated Access
  - SoD, being sure to assess from business process perspective

- Regular configuration review
  - Frequency depends on reliance and change
  - Leveraging audit trail where possible, confirming adherence to process

Monitoring Controls

- Produce periodic review reporting, again focusing on completeness and accuracy



Data Changes

View the Audit Trail changes within a specific date range.

Templates: Journal Sources
Start: 1/1/17
End Date: 12/31/17

Date	Template	Table	Event	Field	Old Value	New Val			
7/18/17 8:42 A...	Journal Sources	GL_JE_SOURC...	Update	EFFECTIVE_DA...	Roll Date	Leave Al			
7/18/17 8:42 A...	Journal Sources	GL_JE_SOURC...	Update	JE_SOURCE_KEY	QEC1	QEC1234			
7/18/17 8:42 A...	Journal Sources	GL_JE_SOURC...	Update	JOURNAL_APP...	No	Yes	ARUN KUMAR	General Ledge...	General Ledger
7/18/17 8:42 A...	Journal Sources	GL_JE_SOURC...	Update	OVERRIDE_EDI...	No	issue getting ...	ARUN KUMAR	General Ledge...	General Ledger
7/18/17 8:39 A...	Journal Sources	GL_JE_SOURC...	Insert	DESCRIPTION		Federl Quarte...	ARUN KUMAR	General Ledge...	General Ledger

Review History

View a listing of all the reviews conducted and their current status.

Reviewer	Review Type	Frequency Type	Review Status	Review Items	Generated Date
Nate Boettcher	Product	Full	Not Started	2464	2/1/18 12:22 PM
Aidan Parisian	Security Role	Full	Not Started	209	2/1/18 12:22 PM
Nate Boettcher	Security Role	Full	Not Started	209	2/1/18 12:22 PM
Nate Boettcher	Critical Access	Full	Not Started	1301	2/1/18 12:22 PM
Nate Boettcher	Business Process	Full	Not Started	198	2/1/18 12:22 PM
Aidan Parisian	Business Process	Full	Not Started	1355	2/1/18 12:22 PM
Nate Boettcher	Conflict	Full	Not Started	196	2/1/18 12:22 PM
Aidan Parisian	Conflict	Full	Not Started	1272	2/1/18 12:22 PM

Supporting Controls

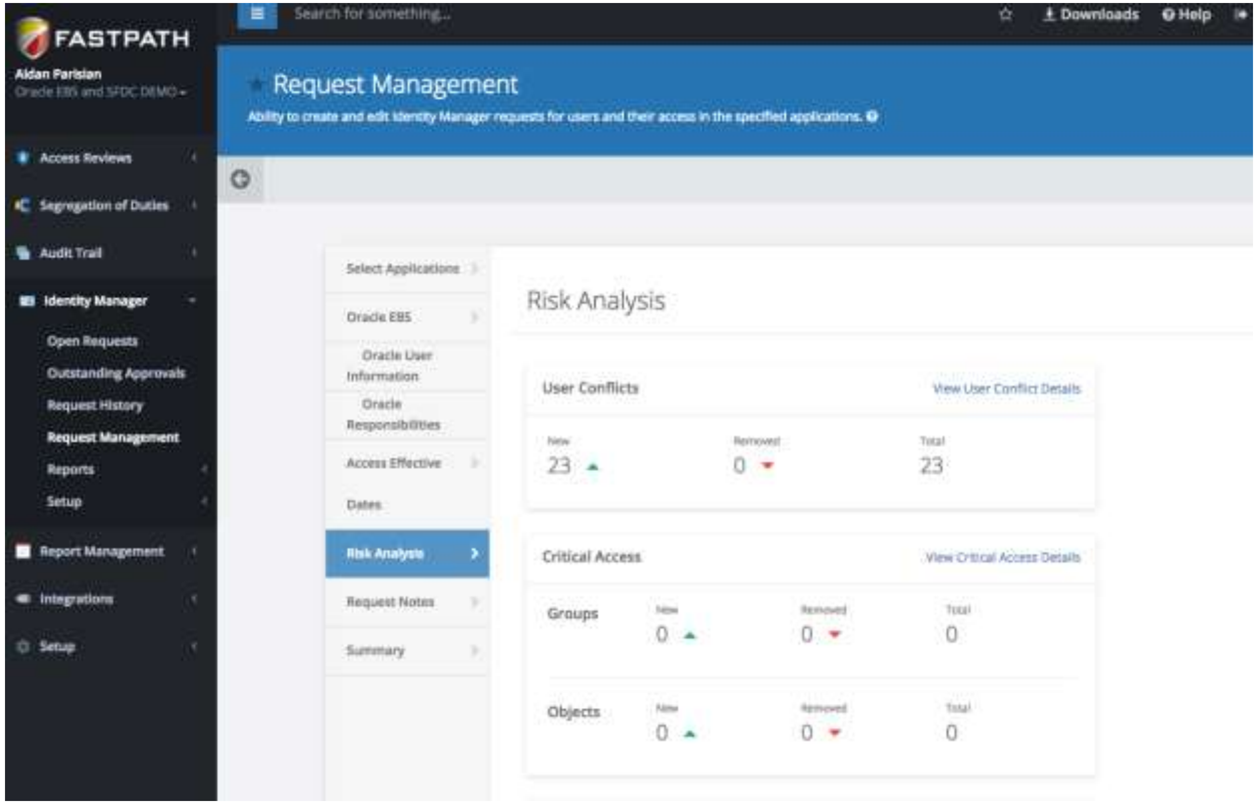
Preventative Controls: those controls that are focused on preventing exceptions

- Access request approval
  - Strong policies around granting access after approval
  - Leveraging workflow or technology to systematically prevent exception

- Change management
  - Include configuration in normal change management, with strong policies and use of a ticketing system
  - Leverage detective controls to validate adherence to policy

Supporting Controls

- Preventative controls and workflow can reduce risk at its source



Request Management

Ability to create and edit Identity Manager requests for users and their access in the specified applications.

Risk Analysis

User Conflicts

New	Removed	Total
23 ▲	0 ▼	23

Critical Access

	New	Removed	Total
Groups	0 ▲	0 ▼	0
Objects	0 ▲	0 ▼	0

Summary

- Risk Assessment and Scoping
- Current State
- Remediation and Issues
- Implementing Process and Control

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Questions?

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THANK YOU

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