How to Avoid Material Weaknesses: Steps for creating a robust ICFR program



Speakers



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CFO

Greenlight Technologies



CFOs Under More Scrutiny for ICFR

"SEC enforcers have been investigating and prosecuting a broader range of Internal Controls Financial Reporting (ICFR) violations than ever before."

Howard Scheck, former chief accountant of the SEC **CFO Magazine**

Lockheed warns of material weakness in Sikorsky financial statements

BUSINESS NEWS

EBay finds 'material weakness' in controls over accounting for tax

HMS Holdings to delay filing annual report due to possible material weakness; shares slump 9% premarket

🜔 REUTERS

About: HMS Holdings Corp (HMSY) | By: Douglas W. House, SA News Editor 🞽

"Demonstrating a commitment to financial reporting integrity — before an incident occurs and during the handling of an incident — positions subjects to be viewed in the most favorable light by SEC staff, thus increasing the odds of a favorable outcome."





- 1. A Deeper Dive into the FERF / Greenlight ICFR Tracker
- 2. A Deeper Dive into Internal Controls over Financial Reporting (ICFR)
- 3. "Material Weakness" vs. "Significant Deficiency"
- 4. Technology & Automation Potential Risks vs. Actual Violations
- 5. Business & Financial Impact
- 6. Customer Use Cases Examples



About Greenlight

Company

✓ Founded 2007; Headquarters Flemington NJ

Partnerships

- ✓ SAP Solution Extension
- ✓ Oracle Platinum Partner

Awards & Recognition

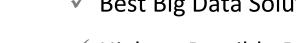
- $\checkmark\,$ Best Big Data Solution using SAP HANA
- Highest Possible Rating in Gartner Marketscope



Greenlight enables businesses to assess, manage and reduce risk for Financial Controls, Regulatory Compliance, and Application Security

BIG







FERF / Greenlight ICFR Tracker

As part of the Financial Education & Research Foundation and Greenlight Technologies' ongoing research into ICFR, we have created a program to automatically review all quarterly public filings and highlight those companies that have reported a material weakness.

After each quarter, we will provide you with this analysis as we look for trends over time, key issues that companies face and best practices to help with your reporting efforts.

Key takeaway: An effective system of ICFR can significantly reduce the risk of misstatements and inaccuracies in your company's financial statements.

Greenlight consolidates information from publicly available authoritative data sources reasonably believed by Greenlight to be reliable and accurate at the time of providing the information.



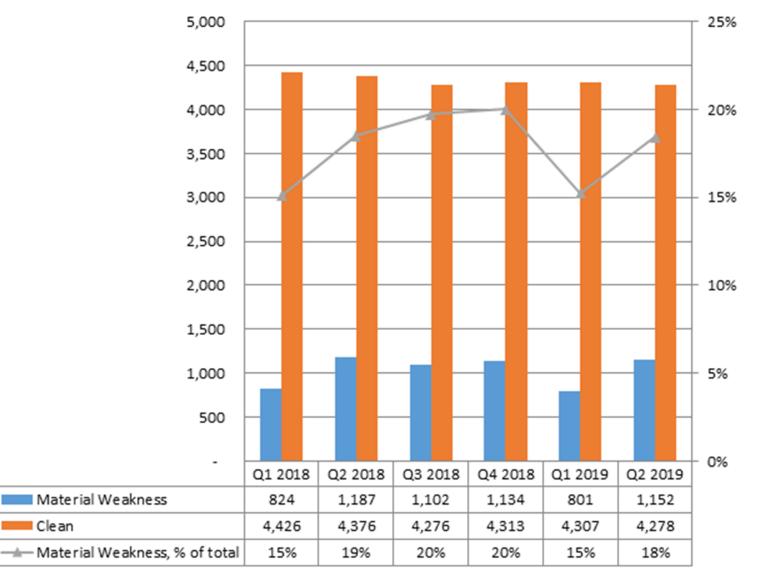


ICFR Tracker Overview

- All SEC filings in EDGAR were analyzed for terms related to 'Material Weakness', 'Remediation', 'Significant Deficiency', etc. in relevant sections of 10-K and 10-Q filings
- Selected filings indicates high probability of Material Weakness (>95% confidence)
- Some Companies filed more than once during the quarter e.g. 10-K then 10-KA; 10-K then 10-Q. These 'Duplicate' names are tracked to see number of unique Companies filing each quarter.
- Revenue values were correlated when available to stratify the filings to focus on large companies
- Companies are the tracked to see, new filings, how long the disclosure continues, type of weakness (RevRec, Leases, Taxes, IT Controls, SOX/SOD, etc.)



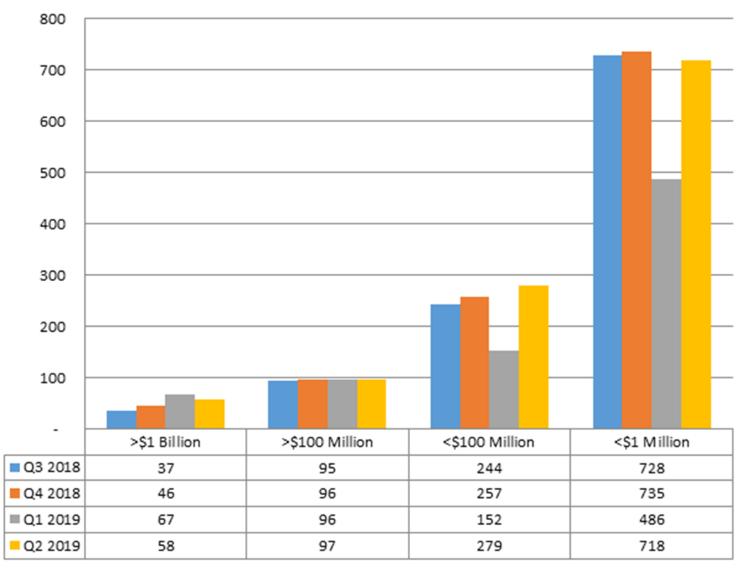
Disclosures of Material Weakness to SEC



Source: SEC EDGAR filings – Q1 2018 – Q2 2019



Disclosures by Company Revenue



Source: SEC EDGAR filings - Q3 2018 - Q2 2019



Example – Top 20 by Revenue

Disclosure Text Ty	pe Date	Link	Estimated Revenue	Company Name
Item 4—Controls 10-	Q 6/6/2019	https://www.sec.gov/Archives/edgar/data/909832/0000909832-19-000003-index.htm	\$ 141,576,000,000	COSTCO WHOLESALE CORP / NEW
Item 9A Controls 10-	K 6/11/2019	https://www.sec.gov/Archives/edgar/data/1702015/0001599916-19-000090-index.htm	\$ 33,930,000,000	AIS Holdings Group, Inc.
ITEM 4. CONTRO 10-	Q 4/3/2019	https://www.sec.gov/Archives/edgar/data/823277/0000823277-19-000011-index.htm	\$ 32,683,347,000	CHS INC
Item 9A. Control: 10-	K 6/7/2019	https://www.sec.gov/Archives/edgar/data/1637459/0001637459-19-000049-index.htm	\$ 26,270,000,000	Kraft Heinz Co
ITEM 4. CONTRO 10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/18926/0000018926-19-000012-index.htm	\$ 23,440,000,000	CENTURYLINK, INC
Item 4. Controls (10-	Q 4/19/2019	https://www.sec.gov/Archives/edgar/data/40987/0000040987-19-000023-index.htm	\$ 18,740,000,000	GENUINE PARTS CO
Item 4. Controls (10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1355096/0001558370-19-004827-index.htm	\$ 14,070,000,000	Qurate Retail, Inc.
Item 4. Controls (10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1254699/0001254699-19-000007-index.htm	\$ 14,070,000,000	QVC INC
Item 4. CONTROL 10-	Q 5/14/2019	https://www.sec.gov/Archives/edgar/data/727920/0000727920-19-000011-index.htm	\$ 12,420,000,000	AXA EQUITABLE LIFE INSURANCE CO
Item 4.CONTROL 10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1333986/0001333986-19-000019-index.htm	\$ 12,360,000,000	AXA Equitable Holdings, Inc.
ITEM 4.CONTROL 10-	Q 6/11/2019	https://www.sec.gov/Archives/edgar/data/1326380/0001326380-19-000102-index.htm	\$ 8,285,300,000	GameStop Corp.
Item 4.Controls a 10-	Q 5/1/2019	https://www.sec.gov/Archives/edgar/data/1580608/0001580608-19-000053-index.htm	\$ 7,590,000,000	Santander Consumer USA Holdings Inc.
Item 4. Controls (10-	Q 5/2/2019	https://www.sec.gov/Archives/edgar/data/897723/0000897723-19-000022-index.htm	\$ 7,110,000,000	SANMINA CORP
ITEM 4. CONTRO 10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1610092/0001104659-19-028608-index.htm	\$ 5,490,000,000	Diplomat Pharmacy, Inc.
Item 9A. CONTRC 10-	K 5/30/2019	https://www.sec.gov/Archives/edgar/data/827054/0000827054-19-000143-index.htm	\$ 5,350,000,000	MICROCHIP TECHNOLOGY INC
Item 4. Controls (10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1048286/0001628280-19-006493-index.htm	\$ 5,215,000,000	MARRIOTT INTERNATIONAL INC /MD/
Item 4. Controls a 10-	Q 5/10/2019	https://www.sec.gov/Archives/edgar/data/1669779/0001558370-19-004851-index.htm	\$ 4,790,000,000	Camping World Holdings, Inc.
Item 4: Controls a 10-	Q 4/30/2019	https://www.sec.gov/Archives/edgar/data/28823/0000028823-19-000121-index.htm	\$ 4,578,600,000	DIEBOLD NIXDORF, Inc
Item 4. Controls a 10-	Q 5/9/2019	https://www.sec.gov/Archives/edgar/data/1610950/0001610950-19-000023-index.htm	\$ 4,390,116,000	Syneos Health, Inc.
Item 4.CONTROL 10-	Q 5/7/2019	https://www.sec.gov/Archives/edgar/data/1712184/0001712184-19-000150-index.htm	\$ 3,705,700,000	Liberty Latin America Ltd.



Source: SEC EDGAR filings - Q2 2019; other sources for revenue estimates

Internal Controls over Financial Reporting

"Internal controls" refer to those procedures within a company that are designed to reasonably ensure compliance with the company's policies.

Under the framework developed by the Committee on Sponsoring Organizations (COSO), there are three types of internal controls:

- Those that affect a company's operations (e.g. effectiveness and efficiency)
- Those that affect a company's compliance (e.g. laws and regulations)
- Those that affect a company's **financial reporting** (e.g. reliability)



Polling Question #1

Who owns the ICFR process in your organization?

- A. CEO
- B. CFO
- C. Controller
- D. Compliance Officer
- E. Head of Internal Audit
- F. Other/ N/A



Internal Control Framework Review

The COSO model defines internal control as "a process, effected by an entity's board of directors, management and other personnel, designed to provide reasonable assurance of the achievement of objectives".

There are five interrelated "components" of an effective internal control system. These are derived from the way the company is managed on a day-to-day basis.

- **1.** Control Environment
- 2. Risk Assessment
- **3.** Control Activities
- 4. Information & Communication
- 5. Monitoring Activities



What is a "material weakness" in ICFR?

A material weakness exists if there is a flaw within the company's overall control system such that it is at least reasonably possible that a material misstatement in the company's financial statements will not be prevented or corrected.

Examples:

- SOX 404 segregation of duties
 - Person that creates a vendor also pays the same vendor
 - Person that receives goods can also adjust inventory
- Business Processes
 - General Ledger reconciliation
 - Inventory changes, moves and transfers
- IT General Controls
 - Privileged users, Change Management, etc.



What is a "deficiency" in ICFR?

A "deficiency in design" exists when:

- a control necessary to meet the control objective is missing
- an existing control is not properly designed so that, even if the control operates as designed, the control objective would not be met

A "deficiency in operation" exists when

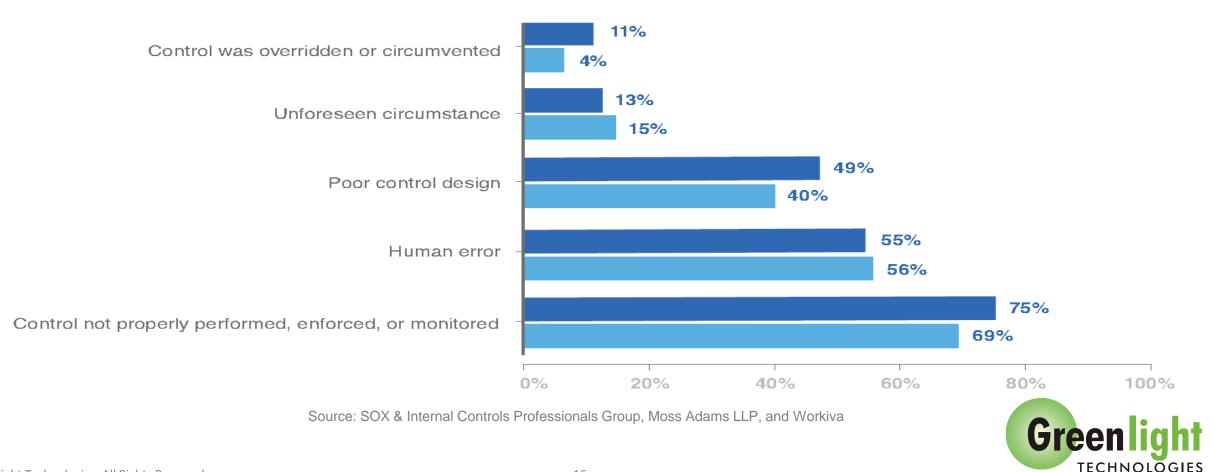
- a properly designed control does not operate as designed
- when the person performing the control does not possess the necessary authority or qualifications to perform the control effectively

A "significant deficiency" is a deficiency that is less severe than a material weakness yet important enough to merit attention by those responsible for oversight of the company's financial reporting

Internal Control Failures on the Rise

Per the *State of the SOX/Internal Controls Market Survey*, there was a 9% increase in the number of respondents that reported internal control failures compared to the previous year.

The most cited cause was "Control not properly performed, enforced, or monitored" (increased by 6%)



Polling Question #2

Is your organization subject to SOX?

- A. Yes, large accelerated filer
- B. Yes, accelerated filer
- C. Yes, non-accelerated filer
- D. No, privately held company
- E. No, Other



Recent Example

Costco Warns of Material Weakness in Controls

The warning related to IT systems that "support the company's financial reporting processes" drove Costco's stock down 2.4%.

October 5, 2018 | CFO.com

"The weakness relates to **general information technology controls** in the areas of user access and program change-management over certain information technology systems that support the company's financial reporting processes," Costco said. "The access issues relate to the extent of **privileges afforded users authorized to access company systems**."

Remediation efforts have begun, according to Costco, but the material weakness will **not be considered remediated** until "management has concluded, **through testing**, that [the applicable] controls are operating effectively."



Internal Control Challenges

After 17 years, SOX and Segregation of Duties (SoD) is Still an Issue

- Focus typically based on highest number of violations vs. impact to the business
- Not all SoD's will be removed due to business requirements
- "Can do" analysis is no longer enough, "did do" analysis is now the norm

Controls require manual effort to investigate and to manage audit reporting

- Mostly manual control testing that takes employees away from value-add business activities
- No ability to manage by exception and identify fraud
- Lack of visibility to true financial exposure

Business processes increasingly moving outside of ERP

- Non-ERP applications such as Business Planning & Consolidation, Master Data Management, etc.
- Cloud based applications such as Ariba, Salesforce, Workday, etc.
- Legacy, custom, homegrown and industry specific applications

What's Changing?

Auditors are now digging deeper into internal controls and identifying inadequate controls and incomplete procedures

- GRC solutions only find the potential issues
- When issues remain in the business, a control must be identified

External Audit Findings:

- No controls are defined companies stop at the point of which users have risky access
- 'Dummy' controls are in place to mask risks from being reported as uncontrolled
- A business process control is identified and assigned that does not adequately monitor user risk
- Controls are defined, haphazardly being performed, or not at all





Customer Example #1

Customer Example:

- Fortune 500 company
 - >15,000 employees worldwide
 - ERP Instance: SAP ECC
- Reported Material Weaknesses in 10-K
- Audit Issue: Not able to identify SoD conflicts for mitigation and document where conflicts originated and how they were resolved.



Mark Kissman

CFO, Greenlight Technologies (Former CFO of multiple public & private technology companies)

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Customer Example #2

Customer Example:

- Fortune Global 100 company
 - >50,000 employees worldwide
 - ERP Instances: SAP (5) and JDE (28)
- Project Objectives include moving from SAP/JDE to SAP S4 in the Cloud
 - Also includes moving Procurement from SAP/JDE to SAP Ariba in the Cloud
- Audit Issue: How to monitor and test internal controls across SAP/JDE/Ariba processes



Control Automation Project (CAP) Opportunity

- There is an opportunity to simplify the process used to validate activity. The current process, while not broken, is inefficient with a lot of manual control reporting.
- The project will evaluate control monitoring and reporting software.
- This software extends the capability of the SAP GRC Access Control currently used today for SAP and JDE User Access Reviews and SOD Conflict reporting.
- -Through control automation, it can reduce the need for organizations to manually run compensating control reports for individuals with SOD conflicts and may provide additional fraud protection.



CAP Fit with Overall System Transformation Initiative

CAP will allow process simplification now and provide uninterrupted transition to S4

Opportunity statement:

Develop an Information Technology strategy, determine the target architecture framework, and define the company's digital core to position Company to fully leverage technology advances and guide the replacement of soon-to-be obsolete systems.

Success vision:

- No business interruption from obsolescence of current systems or during transition to new systems
- Create competitive advantage through quick and easy access to critical information via improved systems of record. This will enable more informed business decisions and streamlined processes to meet changing business information needs.
- Serve as a foundation for Company to capitalize on the fourth industrial revolution; leverage rapidly transforming technologies like cloud, mobile, analytics and artificial intelligence (e.g., machine learning).



Transformation Initiatives Guiding Principles

CAP will allow end to end processes across Compliance, Procurement and ERP

Simplify now to drive global compliance and financial risk processes

> Quantifying Value of Risk has 12 month or less payback

Use a business-driven, enterprise approach

- Company's business strategy will drive the strategy.
- Focus first on complete value streams / end-to end-processes (vs. focusing on opcos or functions).
- Govern the program as an enterprise initiative.

Eliminate, simplify, standardize and automate

- Emphasize elimination and simplification before standardization.
 Standardize to drive efficiency and compliance with the digital core. Functions will own global processes and drive standardization for core business processes and data.
- Validate localization to address legal, fiscal or regulatory requirements and allow localization where necessary. Understand the risk and exposure to make informed decisions.

Plan for the long-term

- Leverage internal employees both for program leadership and for opportunities to build organizational capability. Use third-party consulting for key advisory roles and program continuity.
- Build solution to be scalable and to allow for agility & innovation.
- Maintain control of our destiny (i.e., not dictated by software providers).
- Protect our business interest by implementing a value-driven solution.



Transformation Initiative Benefits

Listed below are the current items in scope and the expected program benefits.

In-scope value streams:

- Asset lifecycle
- Commodity to market
- Product lifecycle
- Customer lifecycle
- Liquidity and risk management
- Financial booking to reporting
- Source to Pay
- Recruitment to retirement
- Integrated business planning

Expected program benefits:

 Greater agility and flexibility – respond rapidly to internal and external needs to maximize value for the organization

owerful analytics – make timely decisions and develop insights to enjoy first-move advantage

- Process simplification and data foundation streamlined enterprise processes and common systems of record
- New and improved capabilities for financial information

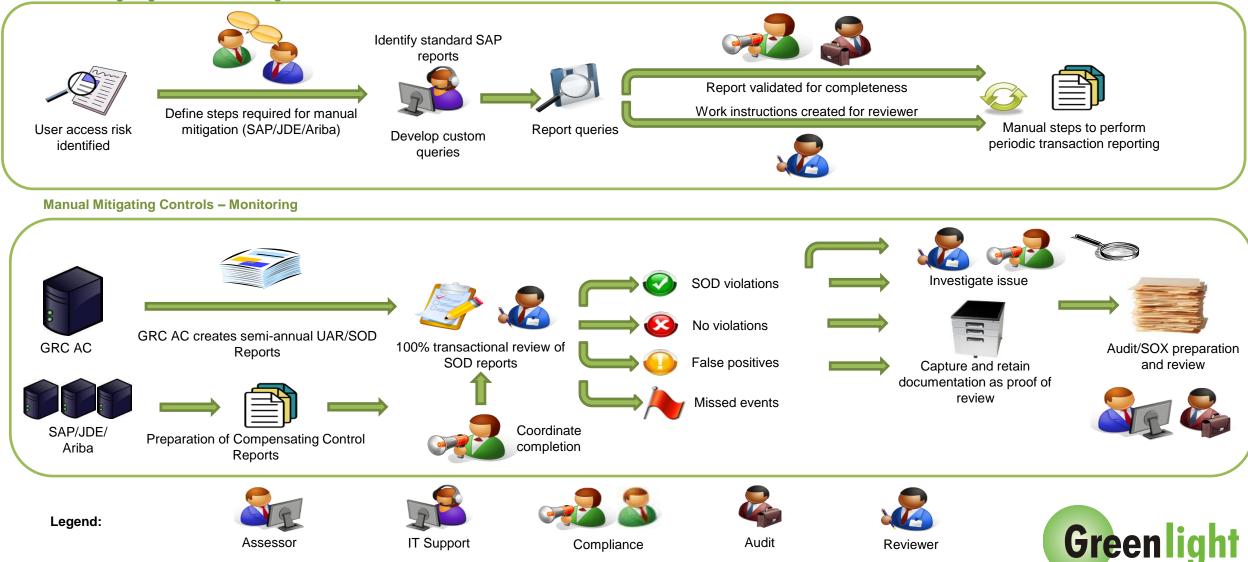
Greenlight

Financial Value will enable more accurate risk profile

Current Internal Control Process

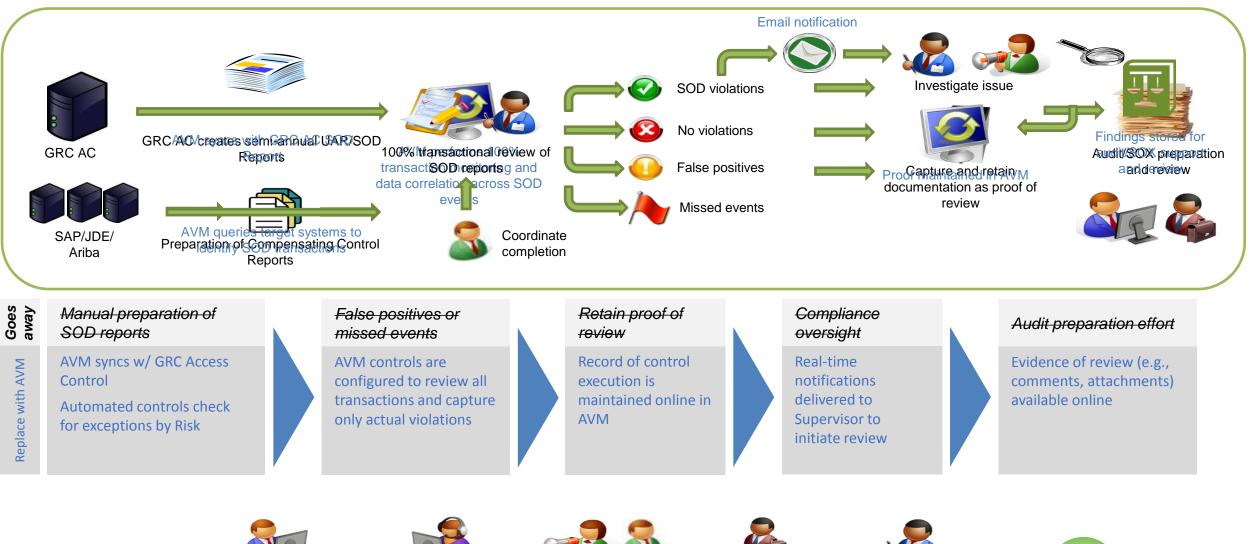
Repeated manual process

TECHNOLOGIES



Manual Mitigating Controls – Defining

Moving to Greenlight: What Changes?



Legend:

Assessor

IT Support

Compliance

Audit



Reviewer



Project results: key takeaways

AVM Process: Supervisor SOD Review UAT

- ightarrow Standardize and gain visibility to the SOD Review process
- SOD review process in AVM requires the same or less effort than the current process, and allows for a more thorough review process, while reducing the number of tools used.
- Estimated total of 46-57 hours spent per year performing current SOD reviews (15 supervisors / 5 in-scope risks). Estimated time savings using AVM between 30%-50%.

Current Process: Preparing System Reports for Compensating Controls:

\rightarrow Automate and centralize SOD risk exception reporting

• Estimated total of 18 hours/year preparing reports for the five in-scope risk IDs across in-scope BUs Americas/Downstream, Brazil/Upstream, and FSS (4 report preparers).

Current Process: Internal Controls Activities

→ Reduce Internal Controls time commitment to SOD activities

- Internal Controls SOD SME committed ~80% of their time supporting X control processes and acting as liaison between PWC during the annual audit. With AVM, time spent managing the external audit of control could be reduced from estimated 3.5 months to 1 month.
- PWC estimates approximately 187 hours auditing control X per year today. With AVM, PWC expects less ongoing audit hours. However, there would be initial cost in auditing the setup of AVM.









Compliance / Audit



Scope of Deployment

- 51 ERP Systems
 - 5 SAP
 - 28 JDE
 - 14 Ariba-JDE cross-over
 - 4 Ariba-SAP crossover

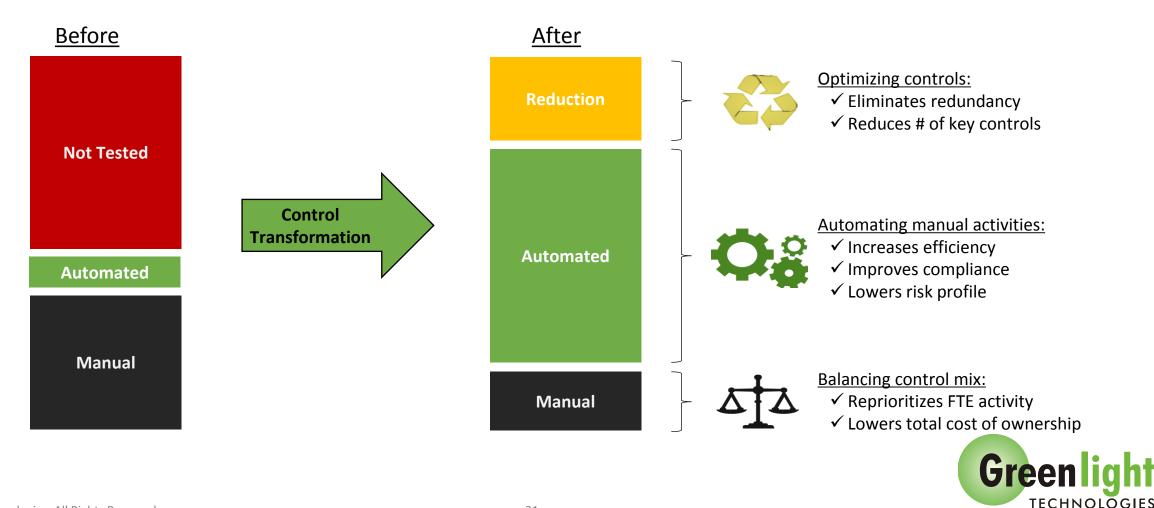
RISKID	RISKID description	ERP	
FI01	Adjust owner interest calculation and Create/change PRA manual journal entries	SAP	
FI02	Create/change PRA manual journal entries and Approve PRA manual journal entries	SAP	
FI03	Generate manual royalty check and Create/change PRA manual journal entries	SAP	
OC01	Maintain customer master data and Maintain customer credit master data	SAP	
OC02	Maintain customer master data and Process sales order	SAP	
OC03	Maintain customer master data and Asset posting to a vendor/customer account	SAP	
OC04	Maintain customer master data and Post customer cash call	SAP	
OC05	Maintain customer master data and Process customer invoice/credit	SAP	
OC06	Maintain customer master data and Post customer down-payment	SAP	
OC07	Maintain customer master data and Clear customer down-payment	SAP	
OC08	Maintain customer master data and Process incoming payments	SAP	
OC09	Maintain sales deal and Process sales order	SAP	
OC10	Maintain SD pricing condition records and Process sales order	SAP	
PP01	Maintain vendor master data and Release requisition	SAP	
PP02	Maintain vendor master data and Release PO	SAP	
PP03	Maintain vendor master data and Process PO no release (DT)	SAP	
PP04	Maintain vendor master data and Process PO no release (DT/POrg)	SAP	
PP05	Maintain vendor master data and Asset posting to a vendor/customer account	SAP	
PP06	Maintain vendor master data and Process vendor invoice/credit	SAP	
PP07	Maintain vendor master data and Create vendor down-payment request	SAP	
PP08	Maintain vendor master data and Create vendor cash call advance request	SAP	
PP09	Maintain vendor master data and Post vendor down-payment	SAP	
PP10	Maintain vendor master data and Clear vendor down-payment	SAP	
PP11	Release requisition and Process goods/service receipt	SAP	

- 47 SoD Risk Conflicts
 - 34 SAP
 - 8 JDE
 - 3 Ariba-JDE cross-over
 - 2 Ariba-SAP crossover

RISKID	RISKID description	ERP		
PP11	Release requisition and Process goods/service receipt	SAP		
PP12	Release PO and Process goods/service receipt			
PP13	Process PO no release (DT) and Process goods/service receipt	SAP		
PP14	Process PO no release (DT/POrg) and Process goods/service receipt	SAP		
PP15	Process a PM External Order and Requisition and Process goods/service receipt			
PP16	Release requisition and Process vendor invoice/credit	SAP		
PP17	Release PO and Process vendor invoice/credit			
PP18	Process PO no release (DT) and Process vendor invoice/credit			
PP19	Process PO no release (DT/POrg) and Process vendor invoice/credit			
PP20	Process a PM External Order and Requisition and Process vendor invoice/credit			
PP21	Maintain customer master data, Maintain vendor master data and Post JV/FI documents			
X001	Maintain vendor master data and Release requisition			
X002	Release requisition and Process goods/service receipt	SAP/Ariba		
JR01	Maintain vendor master data and Approve Expenditure	JDE		
JR02	Maintain vendor master data and Process vendor invoice/credit			
JR03	Approve Expenditure and Process vendor invoice/credit			
JR04	Approve Expenditure and Acknowledge receipt of goods/services			
JR05	Approve Expenditure and Maintain approvals			
JR07	Maintain customer master data and Process sales order			
JR08	Maintain customer master data and Process customer invoice/credit			
JR09	Maintain sales deal/pricing and Process sales order			
JX01	Maintain vendor master data (JMVD) and Release requisition(ARIBA)			
JX02	Acknowledge receipt of goods/services (JPGR) and Release requisition(ARIBA)	JDE/Ariba		
JX03	Process vendor invoice/credit (JPVI) and Release requisition(ARIBA)	DE/Ariba		
	TEC	HNOLOGIE		

Continuous Control Monitoring

Incorporating continuous control monitoring helps companies increase audit coverage and standardize review process while reducing compliance and operational cost.



Customer Case Study

⁶⁶ We were able to reduce the time it took to review our segregation of duties by 94%. Our cycle could run every day if we wanted it to.⁹⁹

- Head of Information Security, Multinational Oil & Gas Company

Company

Multinational Oil & Gas Company

Headquarters (Region) EMEA

Industry

Oil & Gas

Products & Services

Petroleum, natural gas, motor fuels, aviation fuels, and petrochemicals

Number of Employees 50,000+

Objectives

- Eliminate manual processes required to facilitate monthly reporting across 14 countries
- Improve efficiency that jeopardized financial systems' performance and consumed a lot of labor resources
- Eliminate audit issues proving to external auditors that risk and compliance reporting was under control

Solution

- Automate legacy processes
- Eliminate highly manual mitigating controls

Benefits

- Reduced business involvement in compliance
- More coverage and visibility of historical data
- Labor savings and reduced auditor fees

1-2 days

New monthly audit cycle time (down 94% from 4-6 weeks)

\$1.8M

3-year adjusted cost savings

90%

More coverage in historical data and transactional activity

96%

ROI in first year (12.9 month payback)

TECHNOLOGIES



The Total Economic Impact[™] Of **Greenlight's Access Violation Management (AVM) Solution**

Through in-depth customer interviews and data aggregation, Forrester concluded that Greenlight AVM has the following three-year financial impact.

FORRESTER[®]



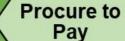
Polling Question #3

What are your plans to automate your internal controls testing?

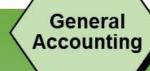
- A. Already automated
- **B.** Significant plans
- C. Moderate plans
- D. No plans



Example Business Process Monitoring



- Configuration
- Master Data
- Procurement
- Goods Receipt Invoice
- Vendor Invoice
- Vendor Payment



- Master Data
- Fixed Asset
- General Ledger Reconciliation
- Journal Entry Processing
- Financial Close

- Order to Cash
- Customer Master
- Order Processing
- Sales Invoice
 Processing
- Account Receivables
- Credit
 Management



- Item Master
- Physical Inventory
- Inventory Transactions



- Employee
 Management
- Benefit Administration
- Payroll

• Expense Reports

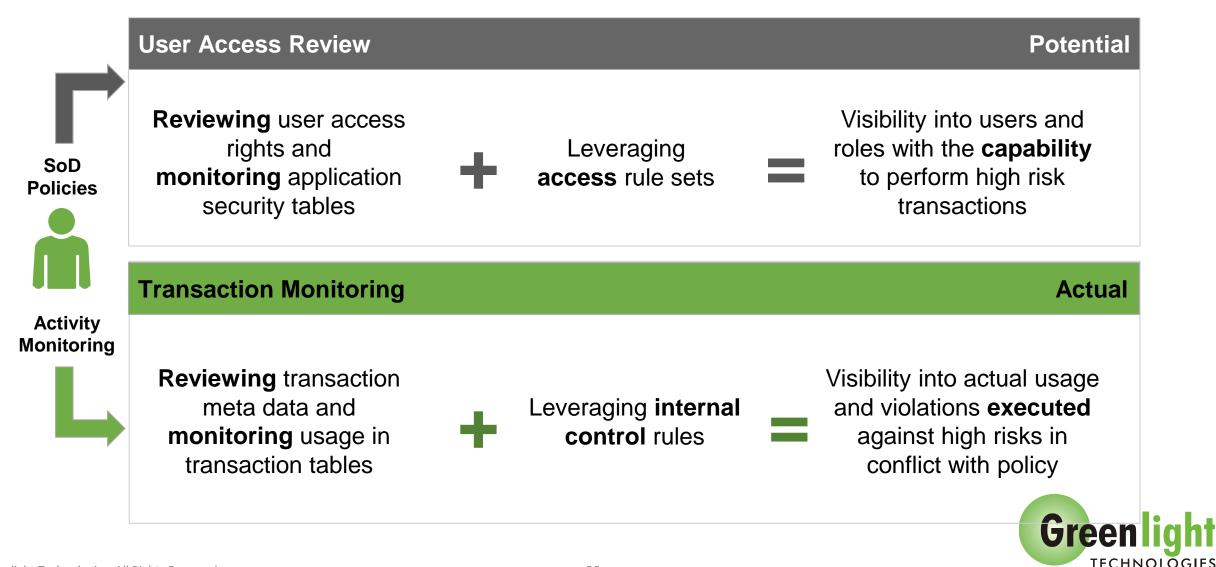
Time &

Expenses

- Duplicate
 Expenses
- Expense Approvals
- Cash Advances
- Receipts



Potential risk vs. Actual violations



Customer Example: Financial Impact of Risk

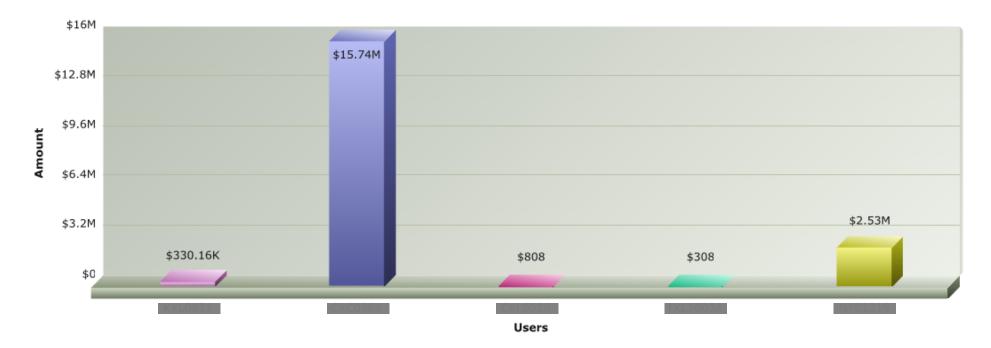
			Totent				
		Business Process	Conflicts reported from User Access		Violations reported from Quantification Analysis		
Risk	Risk Description		# Users	# Violations	# Users	Total # Transaction Occurrences	Total \$ Value (US \$)
F001	Create a fictitious GL account and generate Journal activity or hide activity via posting entries	General Ledger	24	2,916	0	0	\$0
P001	Maintain a fictitious vendor and enter a vendor invoice for automatic payment	Purchasing and Payables	31	3,383	4	9	\$493,108

Potential Risk

Material Internal Control Issue



Customer Example: Invoicing & Processing Payments



140 users are reported by a GRC solution to have the authorizations to perform the risk5 users are flagged after 100% transaction monitoring by Greenlight

Find where the risk is materializing, have controls that are built into the business process and ensure transparency to the actual bottom-line business value (\$) exposure allows senior management, compliance or audit to identify fraud much quicker than with typical manual monitoring

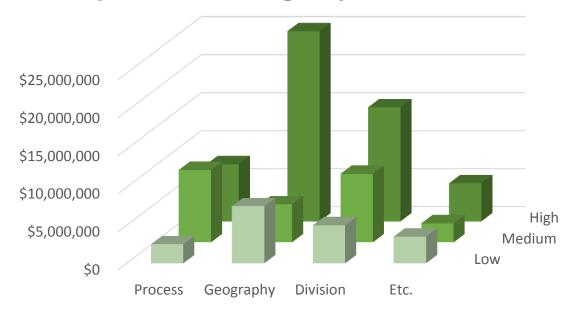
TECHNOLOGIES

Drive Financially Based Business Decisions that Ensure Significant Return on Investment

Would you rather review spreadsheets of transactions...

User ID System Risk ID Risk Desc ijk User ID Svstem Risk ID Risk Desc PC ab User ID Svstem Risk ID Risk Desc Im xy ijk User ID Svstem Risk ID Risk Desc mi de po ab User ID Svstem Risk ID Risk Desc. op uv Im xy ijk User ID System Risk ID Risk Desc. jkl gh mi de ik User ID System Risk ID Risk Desc. 04uVImxyijkjklghmdepqabc123ERPF001ghjkljklghjkljklghmuVoprstrstghjkljklghuVoprstrstdemighdef456demighjkljkljkljkljkljkljklghpqdeniuvoprstrstrstabpqdenighrst< Fictitious GL acct Journal Entry post Inventory adjusting Hide IM adjustment Pay fictitious vendor ab po de m gh jkl012 CRM Pay fictitious PO ijk xy Im uv ab po de mno345 HCM Clear customer bal S007 Create generate bill H001 Modify process pay ijk xy Imn876 T&E H005 Modify T&E pay ab pgr678 ERP D009 Fictitious BP iik543 ERP D019 Fraud POs

Or review the impact actual material exceptions are having on your business?



Greenlight's Financial Impact of Risk let's you:

- Focus on the highest risk areas by process, geography, division, etc.
- Report on business issues not compliance failures
- Reduce risk exposure while ensuring audit readiness
- Embed risk and compliance into your business process



Analyze Users, Processes, Transactions and Risks

Analyze all user activity within your end-to-end business process with a solution designed to meet your current (ERP) and future technology (cloud, SaaS, etc.) roadmap

- Make more informed decisions by assessing your financial exposure
- Analyze access risk across organizational elements and business processes

With automation you can:

- Identify and resolve actual risks in your processes based on business and transactional activity
- Monitor direct access to and suspicious activity around PII, financial, and other critical master data
- Correlate administrator and power user activities over time to identify trends and suspicious activity
- Provide visibility and value quantification for financial risks based on user activities





Polling Question #4

What percentage of ICFR relevant business process applications are in the cloud?

- A. 100%
- **B.** 75%-99%
- **C.** 50%-74%
- D. 25%-49%
- E. 1%-24%
- F. 0%



Ensure Comprehensive Internal Controls

- Monitor all financially relevant applications
- Eliminate manual processes which are resource intensive and difficult to monitor or enforce
- Ensure end to end control process for risk mitigation and audit readiness
 - Business process controls are not effective in managing user access risks
 - Business owners should be monitoring business transactions that are risky based on company policy



- Finance Transformation → Controls & Compliance Transformation
- Focus on value added activities vs. manual internal control manual testing
- If using manual controls, introduce automation to transform the process



Greenlight Technologies

Data Analytics & Risk Quantification

Audit Analytics, Bottom-Line Business Exposure, Financial Exposure of Risk

Governance, Risk & Compliance

SOD Analysis, Access Reviews, Super Users, Provisioning

Activity & Transaction Monitoring

Automated Internal Controls, Exception-Based Notifications

TECHNOLOGIES

Real-Time Enterprise Integrations

Discovery, Aggregation, Correlation and Normalization

Image: Solution of the solution of

How Greenlight Improves Your Internal Controls



Standardize

Enable user access governance processes across all enterprise systems 5

<u>Automate</u>

Monitor 100% of business activity & user transactions to uncover materialized risk



Prioritize

Quantify the financial impact of risk to find the bottom-line business exposure

- Reduce your total cost of ownership for GRC
- Automate your audit, compliance and reporting processes
- Reduce your financial risk exposure



Greenlight Monitors Millions of Users & Billions of Transactions

