

Enhanced Auditing or Auditing with Technology





Manager - IBM Internal Audit CCM/EA Team



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- 17 years experience in internal audit
- CIA and CISA
- Developed global CCM and EA initiatives for IBM's IA organization

This material was prepared solely for the faculty, students, and active participants of the 21 WW Continuous Auditing Symposium at Rutgers University. Reproduction or distribution beyond this Limited audience must be authorized by IBM's General Auditor. The information contained in this presentation is one of many components in IBM's control framework.

AGENDA



- Goblins
- Nightmares
- Critters
- Two Lane Road
- Pipelines and Filters
- Prospecting
- Striking Gold
- Nuggets to Go

Auditor's Gremlins





Mismanagement



Waste



Fraud



Audit Environment





Reduce resource!



Improve efficiency!



Identify Substantive Findings!







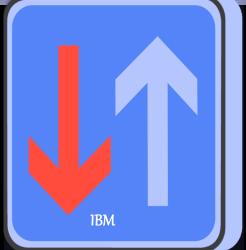
What to Do? if you don't want bats in your belfry



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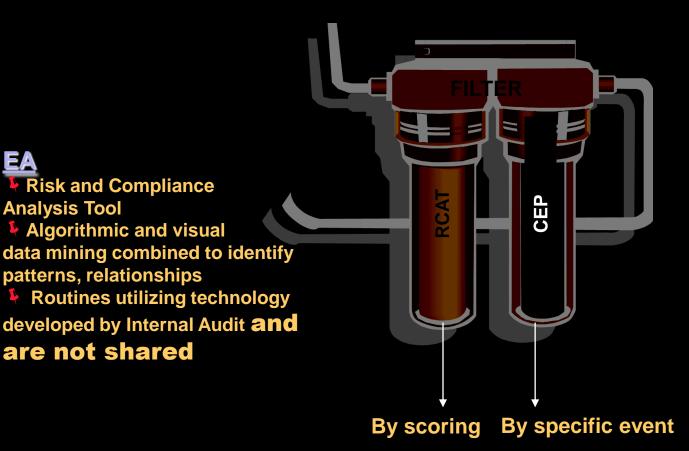
Broad (02C) approach "using advanced analytic technology to aid in periodically analyzing and identifying high risk in Order 2 Cash space to determine control effectiveness."



Specific event process approach "using CEP rule based technology to monitor in real time predefined activity in target process (ex - netting in AR) indicating potential control deficiencies"

IBM Technology





Analysis Tool

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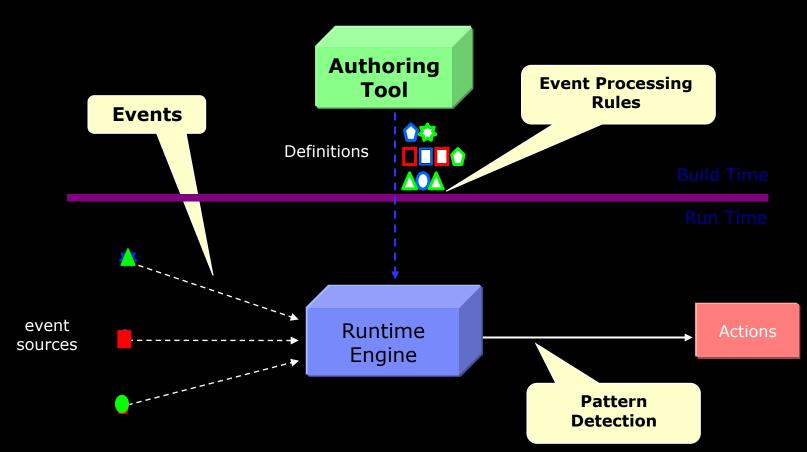
CCM

- Lightweight and agile complex event processing engine
- Developed proactively for use by line management
 - Technology managed by Internal **Audit**
 - Results provided to line management

Tools can be used together or separately

From Single Events to Patterns





- 1. Unique approach SME is the Business Process Owner
- 2. The SME can introduce new\update risks essentially on the fly via collaborative model with Internal Audit and R&D.

Continuous Controls Monitoring



- Deployed in AR process globally
 - Some countries for Business Partner and Procurement processes
 - Other processes for consideration include Accounts Payable and Payroll
- Monitoring 427 rules (attributes)
 - § 291 fraud

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- 136 operational
- Results incorporated into IBM's overall framework of controls
- Improving line and audit efficiency and effectiveness
 - Preventing control circumvention
 - Detecting control deficiencies real-time and reducing time for remediation
 - Filminating opportunity for fraud
 - Confirming controls operating as intended (not sampling 100% tested)
 - Significantly improving allocation of resources during audits to areas of greater risk
 - Input for audit planning, resource allocation for future audits, continuous auditing
 - Preventing potential damage to IBM's image
 - Preventing continuation of inappropriate behavior
 - Avoiding rework cost to reverse unauthorized transactions

Win-Win Value Proposition



Audit

Results can be used

- when performing current audits for scope and staff reduction, improved focus
- for annual planning to extend duration between reviews
- for coverage claiming
- to improve resource allocation
- to reduce audit impact on line units
- to reduce travel

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to improve relations with line units

Line

Results can be used

- to identify and remediate control deficiencies as the occur
 - √ reduces risk of negative image
 - ✓ reduces exposure to rework costs and loss of productive time
 - ✓ reduces bad behavior through continuous oversight
- provides continuous confirmation of control health
- reduces need to allocate constrained resource to manual testing
- for input into control framework
- reduces impact of audits by extending time between inspections and support during engagements

Enhanced Auditing



- Deployed in North America Order-to-Cash
 - Customer Relationship Management
 - Transaction Pricing
 - Fulfillment
 - AR
- Porting to EMEA and AP Currently



TRADITIONAL AUDIT

Data

- Push
- When requested
- Single source (Requires reconciliation)
- Risk Based Analysis

Coverage

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- Cyclical (generally every 3 years)
- "Go" Model
- Audit resource 13 to 20

person-weeks/review

Client impact – Significant

<u>ea approach</u>

Data

- Pull
- Immediate When Needed
- Multiple "trusted" sources
- Total Universe Analysis

Coverage

- On demand
- Remote Model
- ♣ Audit resource 2 to 5 person-weeks
- Client impact Minimal

VALUE PROPOSITIONS

Confirmed

- improved audit efficiency and effectiveness
- improved executive oversight
- reduced audit and line cost
- reduced audit impact on respective line organizations

Nuggets of Wisdom



Build the team!!!

Determine the right participants

- Process owners
- IT owners
- Internal Audit
- Technology Provider

Get the buy-in

- What is the benefit to the non-audit organizations?
 - ✓ Reduced audit duration?
 - ✓ Less frequent audits?

Determine "Specific" Objective

Establish priorities

- fraud detection
- mismanagemen
- bad behavior

Determine the scope or focus

- ex. AR
- ex. expense management
- ex. asset

Attention! Its All About The Data

Determine Accessibility

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- Data warehouse, not production
- Connections available and authorized

Determine technology

- Scalable
- Adaptable
- User friendly