



Practical Considerations for Internal Controls in an Electronic Environment

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Last Twenty Years

1992

• (COSO) released its Internal Control -Integrated Framework (the original framework).



2010

• COSO announced a project to review and update the 1992 Internal Control -Integrated Framework.











2002



• The Sarbanes-Oxley Act of 2002 was passed.



2013

 COSO issued updated Internal Control - Integrated Framework







Learning Objectives

Understand history of internal controls and value for your entity.



Ensure controls remain strong as organizations transition from a manual to automated environment.







Importance of Internal Controls

- Prevention and detection of:
 - Fraud
 - Material misstatements
 - Material non-compliance
 - Operational mishaps
 - "Newspaper" risk







Who is COSO?

Committee of Sponsoring Organizations

Organized in 1985

Studied factors that lead to fraudulent financial reporting

Sponsored by five organizations, including AICPA and IIA

Developed COSO Framework in 1992





IF IT'S NOT BROKEN, DON'T FIX IT...



FALSE. IMPROVEMENT IS ALWAYS POSSIBLE...



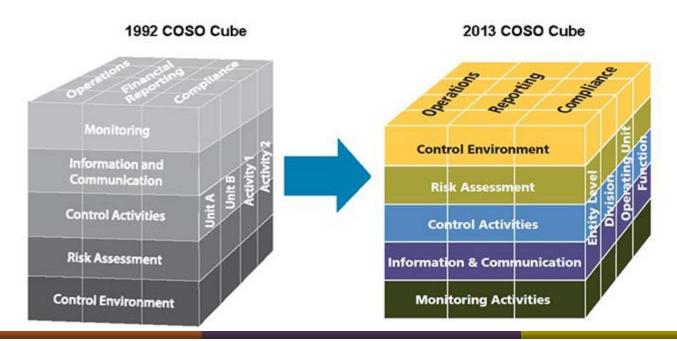
Much has changed since 1992....

Expectations for governance oversight Increase in Risk assessments regulations and receive greater standards attention Globalization of Technology markets ...just to name a few!



What Didn't Change

- Cube stayed very similar.
 - Five Components of Internal Control
- Use of judgment.





What Did Change

17 **principles** that support 5 components of internal control.

 To increase management's understanding as to what constitutes effective internal controls.

Each principle has supporting **points of focus** (77 total)

- To provide helpful guidance in designing, implementing, and conducting internal controls.
- Management has latitude to exercise judgement in which to evaluate.

Increased focus on...

- Technology
- Governance Oversight
- Anti-Fraud Expectations
- Non-financial reporting objectives (operations, compliance, etc.)





17 Principles

CONTROL ENVIRONMENT

- 1. Demonstrates commitment to integrity and ethical values
- 2. Exercises oversight responsibility
- 3. Establishes structure, authority, and responsibility
- 4. Demonstrates commitment to competence
- 5. Enforces accountability

RISK ASSESSMENT

- 6. Specifies suitable objectives
- 7. Identifies and analyzes risk
- 8. Assesses fraud risk
- 9. Identifies and analyzes significant change



17 Principles (Continued)

CONTROL ACTIVITIES

- 10. Selects and develops control activities
- 11. Selects and develops general controls over technology
- 12. Deploys through policies and procedures

INFORMATION & COMMUNICATION

- 13. Uses relevant information
- 14. Communicates internally
- 15. Communicates externally

MONITORING

- 16. Conducts ongoing and/or separate evaluations
- 17. Evaluates and communicates deficiencies



Five Step Transition

Develop awareness, expertise and alignment

Conduct preliminary impact assessment

Facilitate broad awareness, training and comprehensive assessment

Develop and execute COSO transition plan for compliance

Drive continuous improvement





What's Next?

Review internal control environment, policies, rules and regulations and integrate framework.

Identify and address weaknesses and gaps impacting achievement of objectives.



Perform risk management procedures.





Enterprise Risk Management





Questions Organizations Are Asking

What risks should we be focusing on?

Do we know what our true risks are?

Once we know what the risks are, how prepared are we to address them?

Do we have a sustainable process to make risk management more than a one-time event?

How do we capture future risks and integrate them into the process?



Most Organizations Rely on Multiple Sources for Answers

However, risk oversight and an integrated approach is usually lacking



ERM provides a means to better understand, communicate, and respond to the risk knowledge that exists in the organization.

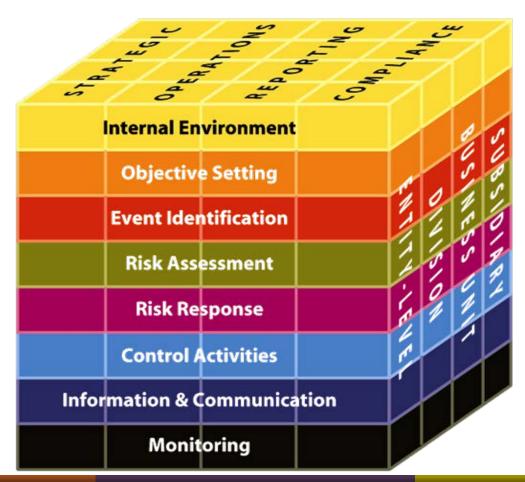






Most Popular Risk Framework

COSO integrated framework



COSO ERM – Eight Interrelated Components

• Internal Environment - tone of the organization

Objective Setting – process in place to set objectives that align with mission

• Event Identification – risks vs opportunities

Risk Assessment – risks are analyzed

Risk responses – avoid, accept, reduce or share

• Control Activities – assists in responses being carried out

• Information and Communication – reporting, training, dissemination of info

Monitoring – accountability, reviews



Benefits of ERM

Understand both financial and nonfinancial risks



Develop
sustainable risk
assessment process
that can be used in
future



Utilize common risk rating criteria for multiple risk types



Implement leading practices

- Manage risk more effectively and efficiently
- Develop data for board and executive risk reporting



Develop risk
mitigation
strategies for key
risks vs. attempting
to cover all



Generate prioritized risk register





Example 1: Heat Map

The risk assessment process facilitates the identification of risks by rating the **Impact**, **Vulnerability** and **Speed of Onset**.

The overall types of impact of the risk can be based on multiple impact including:

Financial

Reputation

Legal/Regulatory

Customers

Employees

Operations

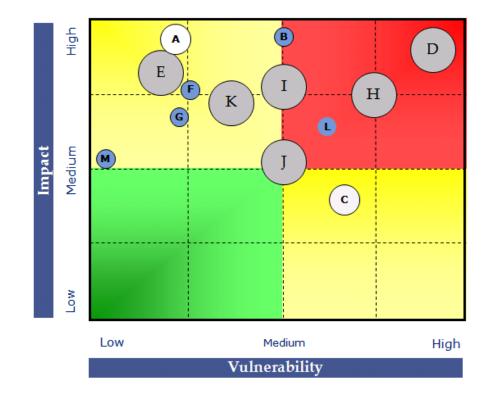
The overall vulnerability of the risk can be based on factors such as:

Existing controls and mitigation efforts

Risk management capability

Prior risk experience

Speed of Onset is based on how quickly the risk could occur





Example 2: Basic Risk Report

Risk Description	Risk Direction	Risk Response Status	Risk Owner	Status of Additional Risk Management Activities Initiated
Failure to comply with federal regulatory standards	-		Mr. Avoid	 Performing review of last 12 months of adverse compliance Developing action plans for key trend areas identified from the review
Inaccurate billing for services	`	•	Ms. Accept	Assess customer concernsMeasure customer satisfaction
Insufficient business continuity planning	→		Mr. Reduce	A project has been initiated to develop appropriate business continuity plans for all major operations and facilities.
Inadequate IT backup and disaster recovery processes	<i>></i>		Ms. Transfer	Key steps have been completed to improve IT BCM: consolidated and improved the data center, documented processes, and retrained personnel.



ERM - Everyone is Involved

- Board
 - Discuss state of ERM and provide oversight.
 - Be apprised of the most significant risks.
- Senior Management
 - Chief executive assesses the risk management capabilities.
 - ♦ Internal lead?
 - ♦ Hire external?
 - Others
 - ♦ Lead Project or
 - ♦ Provide vital input
- Other Personnel
 - Discuss how they are conducting their responsibilities
 - Discuss ideas for strengthening ERM





Current State of ERM

2015 REPORT ON THE CURRENT STATE OF ENTERPRISE RISK MANAGEMENT: UPDATE OF TRENDS AND OPPORTUNITIES

AUTHORED BY

Abstract of source article authored by ERM Initiative Faculty





Key Findings

59%: Volume and Complexity of risks have changed extensively in last 5 years

65%: Admitted they were caught off guard by an operational surprise.

25%: Complete and formal enterprise risk management process in place.

- Same as prior year.
- Larger organizations more likely

68%: Board is asking for increased senior executive involvement in risk oversight.



Key Findings

65%: Experience pressure from external parties to provide information on risks.

32%: Have a chief risk officer

42%: Barrier to ERM is seen as a competing priority



How to Get Started

Risk is like fire: If controlled it will help you; if uncontrolled it will rise up and destroy you.

Theodore Roosevelt







Internal Controls in an Automated Environment

Change in the Control Landscape





IT General Controls (ITGC) – What You Need to Know

- Includes:
 - Systems Development
 - Change Management
 - Security/Access Controls
 - Computer Operations
- To ensure the effective functioning of application controls.
- Ensure the continued proper operation of information systems.



ITGC's – Your Risks

Systems Development

Not functioning as intended.

Unable to serve stakeholders.

Change Management

Fraud/errors due to improper changes.

Security/Access Controls

Improper access to information and assets.

Unprotected sensitive data and information.

Lack of segregation of duties

Computer Operations

Not functioning as intended.

Inconsistent processes followed

Loss of data





What Should You Be Doing?

Understand controls over:

- Appropriateness of User Rights
- Segregation of Duties
- Password Parameters
- Physical/Environmental
- End User Controls over Reports
- User Access Administration (internal and external)
- New Systems testing.
- Changes approved and tested
- Network security.

Identify holes and implement manual controls / reviews.

Have an ITGC/Security review to identify issues

Emphasize to organization the importance of ITGCs.





Segregation of Duties

Automated controls need segregation in same fashion as manual controls.

- Who has access to specific databases and functions?
- Can one individual perform all functions for a specific process?
- Do the right users have the right access for their job?
- What controls are in place to ensure proper SOD?

Example IT Access Testing

Financial Reporting

- Add/Change/Delete Chart of Accounts
- Open/Close Periods
- **Post Journal Entries**

General **Disbursements**

- Add Vendor
- Input an Invoice/Approve an Invoice
- Process Payment to Vendor

Payroll

- Add-Change-Delete Employees
- Setup Payment Method/Establish Pay Rates
- Process Payroll/Update Paid-Time Off **Accrual Thresholds**







What Should You Be Doing?

New users – approve access.

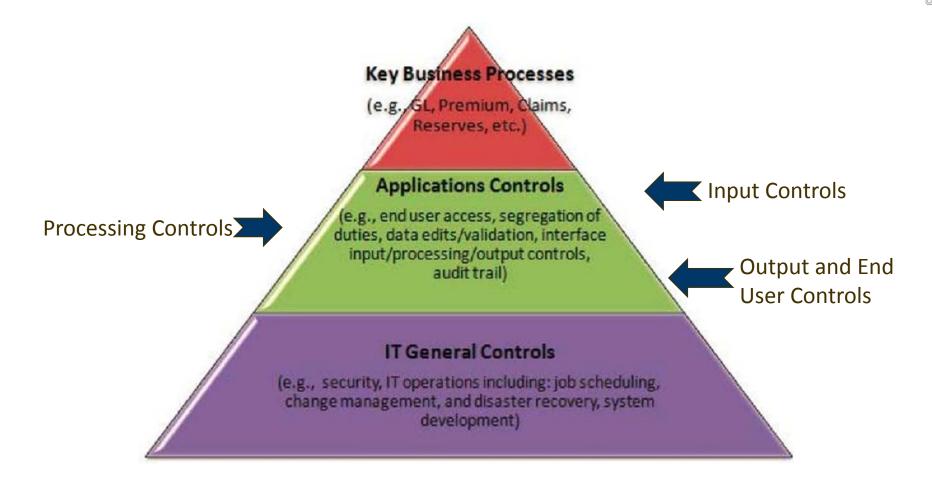
Terminated users – remove access.

Periodic access review.





Application Level Controls





Input Controls

Edit Check (Numeric field; Alphabetic field; Alphanumeric field; Valid code; Reasonableness; Completeness)

Input Authorization (Signature, form, online access control)

Batch control (total monetary amount, total items, hash totals, manual reconciliation)

Error Reporting (rejected transactions)



Processing Controls

Data Validation

- Edit checks, such as:
 - Transactions exceeding a specific dollar amount for additional approval
 - 3-way matching
 - Duplicate check, completeness

Processing checks (business rules)

Compliance controls

- Example: Student Financial Aid
 - Eligibility and Disbursement of Aid





Output and End User Controls

Control over how information is distributed to appropriate recipient (confidentiality).

Controls over access to spreadsheets or other output from systems should be in place to provide reasonable assurance the data is complete and accurate.

Access to formulas should be restricted, files should be password protected, reconciliations to source data should be performed.



How Our World Has Changed

- Approvals no longer on paper.
 - Audit trail for approval process?
- Reliance upon system generated reports.
 - How is accuracy ensured?
- Information automatically fed to GL
 - Information getting to GL completely and accurately?
- Recording of Time Worked
 - How do you prevent employees recording false data?











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