

C24 - SEGREGATION OF DUTIES

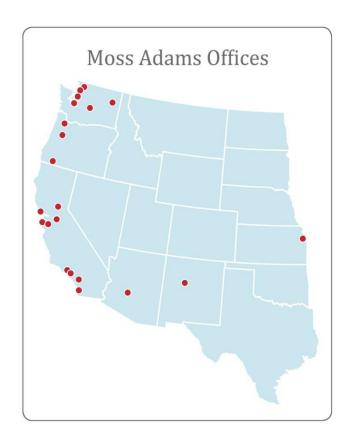
What's the Risk and What Do We Do About It?

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- 11th largest accounting and business consulting firm in the U.S.
- 21 locations; 1,800 personnel
- Industry-focused service groups
- IT consulting specialists





Our Objectives

• Clarify the role of Segregation of Duties (SOD)

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- How to implement effective SOD
- Clarify the evaluation process of current user access
- Identify alternatives to SOD
- Other SOD Considerations

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Agenda

- What is segregation of duties?
- Discuss fraud and risks of fraud
- Examples of SOD violations

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- Demonstrate a method for evaluating SOD
- Considerations for maintaining proper SOD

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o Questions / Answer



What is Segregation of Duties?

- How do you define it?
- What is the goal of segregation of duties?
- Are all SOD conflicts equal in importance?

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What is Segregation of Duties? (cont.)

 COSO: "Dividing or allocating tasks among various individuals making it possible to reduce the risks of error and fraud."

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- Contains four components:
 - 🔅 Custody
 - Authorization
 - Record keeping
 - Reconciliation

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What is Segregation of Duties? (cont.)

- Ideally, a single individual would have responsibility for only a single component.
- Benefits include:
 - Safeguarding of assets

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Accurate financial reporting



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- Reduced risk of non-compliance
- Reduced cost of compliance for automated SOD (e.g., SOX and external audit)



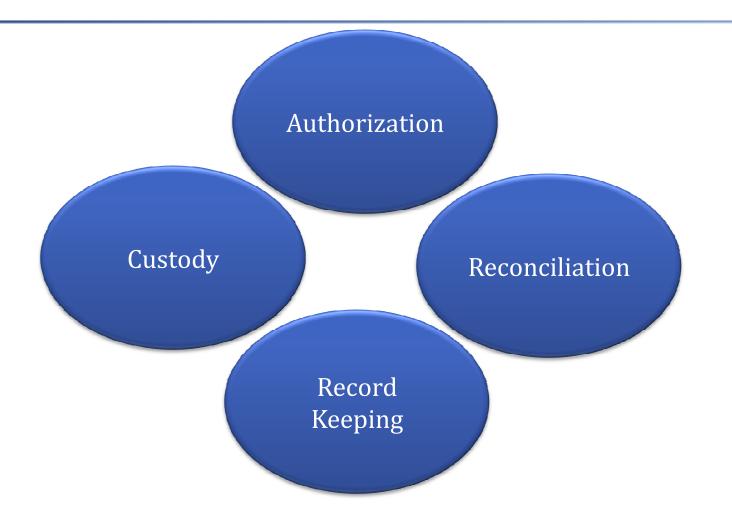
What is Segregation of Duties? (cont.)

- SOD conflicts are <u>not</u> equally important to every company:
 - Safeguarding of assets vs. financial reporting risks
 - Relative importance of information confidentiality
 - Nature of company assets
 - Reduced risk when the "chain" of access is broken



Where Does Fraud Begin?

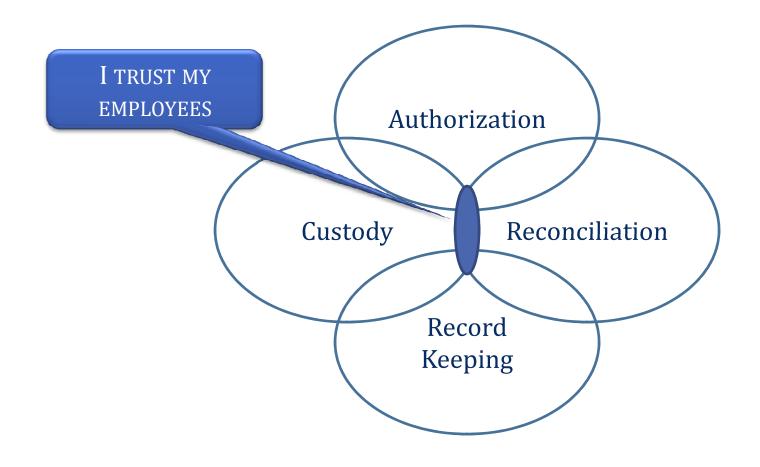
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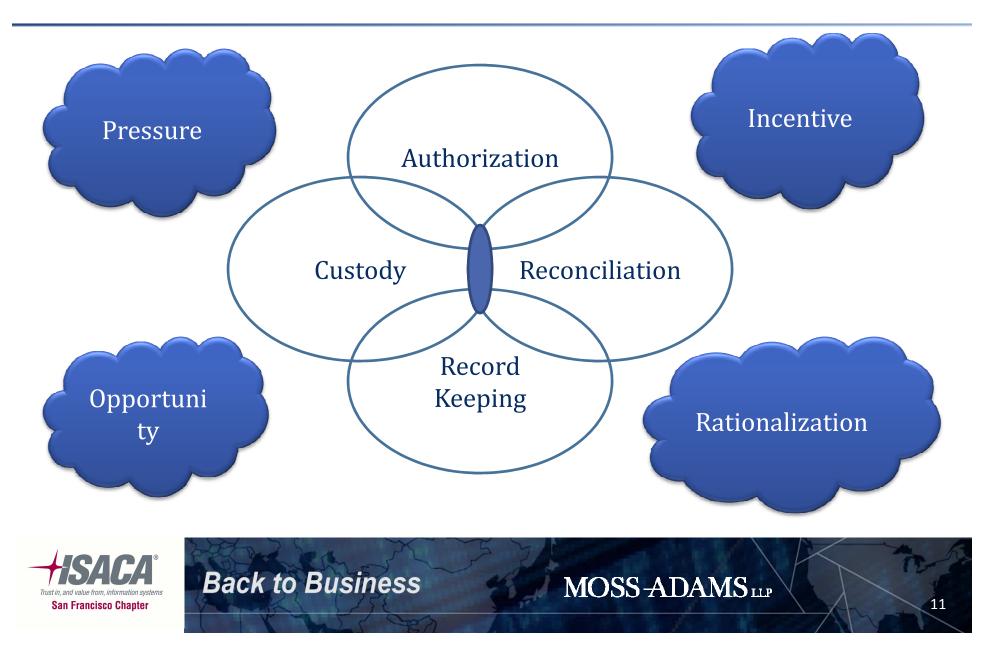


Where Does Fraud Begin? (cont.)





Where Does Fraud Begin? (cont.)



Why do I care – examples in the news...

- NEC
 - –Invalid revenue (\$18M) and kickbacks (\$4.2M)
- Société Générale
 - –Unauthorized Trades (\$7B)
- Madoff
 - –Ponzi scheme (\$50B)

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Management is Surprised...

- All 51 users in a Lawson implementation could enter and approve journal entries
- 21 users could enter/approve cash receipts, enter/approve journal entries and perform bank reconciliations





Management is Surprised... (cont.)

- 105 users in a revenue related system could modify user security
- 223 users in a revenue system could modify the cash drawer beginning balance
- 316 users had access to virtually all sensitive transactions in a hospital revenue application

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Management is Surprised... (cont.)

- 3,100 KRONOS users could authorize their own payroll
 - 1,100 were hourly employees who could approve their own overtime
 - All 3,100 could change their own vacation accruals and approve payment in-lieu of vacation





So Who owns SOD?

- Who owns segregation of duties
 - ✤ IT ?
 - The business ?

- Need for collaboration (both own it)
 - The business must own and define
 - IT must facilitate and enforce





Evaluating Your SOD

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- Define and create a policy or standard.
 - Include a statement that defines responsibility for enforcing the policy and maintaining proper SOD

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- Ultimately includes a list of incompatible duties
- Identify the core tasks performed at your company.



• Identify incompatibilities.

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- Risk-based for your business
- Consider "sensitive" duties such as posting of journal entries, performing reconciliations and Master Data files

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Example SOD Matrix

| Sensitive Activities | Customer Master | Sales Order Entry/Edit | Sales Order Approval | Ship Confirm | Vendor Master | Requisition Entry/Edit | Requisition Approval | Purchase Order Entry/Edit | Purchase Order Approval | Receiving | Inventory Adjustment Entry |
|----------------------------|-----------------|------------------------|----------------------|--------------|---------------|------------------------|----------------------|---------------------------|-------------------------|-----------|----------------------------|
| Customer Master | | | | | | | | | | | |
| Sales Order Entry/Edit | | | | | | | | | | | |
| Sales Order Approval | | | | | | | | | | | |
| Ship Confirm | | | | | | | | | | | |
| Vendor Master | | | | | | | | | | | |
| Requisition Entry/Edit | | | | | | | | | | | |
| Requisition Approval | | | | | | | | | | | |
| Purchase Order Entry/Edit | | | | | | | | | | | |
| Purchase Order Approval | | | | | | | | | | | |
| Receiving | | | | | | | | | | | |
| Inventory Adjustment Entry | | | | | | | | | | | |



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- Understand roles for key responsibilities access rights or capabilities.
 - Shipping/receiving
 - Purchasing
 - Accounts Payable
 - Accounts Receivable
 - Vendor Master





- Translate business tasks and activities into security and access rights within key applications.
 - How is access granted (e.g., roles, menus, objects, etc.)?
 - Define menus or objects granting user access.
 - Identify the "sensitive" objects associated with conflicting duties.





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| Object | Description | Area | |
|----------|---|----------------------------|-----------|
| P0012 | Automatic Accounting Instructions | AAI | |
| P0022 | Tax Rules | Тах | |
| P0030G | G/L Bank Accounts | Accounting | |
| P03013 | Customer Master | Customer Master | |
| P03B0001 | Speed Receipts Entry | Receiving | ٦. |
| P03B0002 | Invoice Revisions | Vendor Invoices Entry/Edit | |
| P03B102 | Standard Receipt Entry | Receiving | |
| P03B11 | Standard Invoice Entry | Vendor Invoices Entry/Edit | |
| P03B11SI | Speed Invoice Entry | Vendor Invoices Entry/Edit |) `eivi |
| P03B11Z1 | Batch Invoice Revisions | Vendor Invoices Entry/Edit | Receiving |
| P03B121 | Work With Electronic Receipts Input | Receiving | Role |
| P03B123 | Electronic Receipt Entry | Receiving |]≮ le |
| P03B305 | Credit Granting / Management | Customer Master | |
| P03B42 | A/R Deduction Activity Master Maintenance | Customer Master | |

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- Determine the existing role access rights.
 - Identify built-in conflicts provided by each role.
 - Document desired changes to roles.
- Determine the users assigned to roles.
 - Provide a complete list of user conflicts allowed.

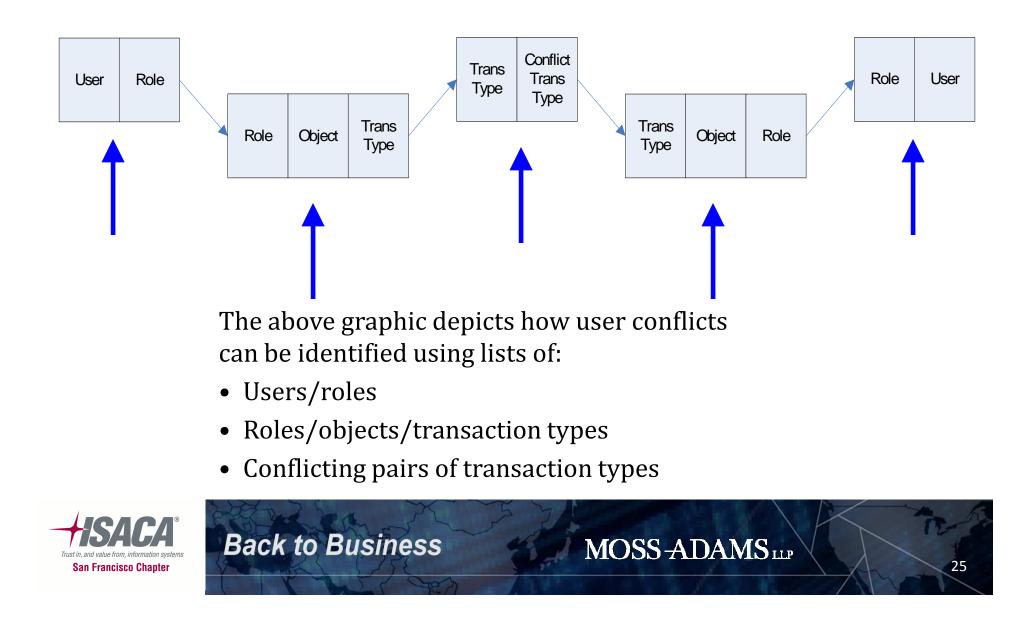


| • | • | | Role | Object | Description |
|-------|-----------|-----------|-----------|----------|---|
| | | | GL | P0012 | Automatic Accounting Instructions |
| | | I | GL | P0030G | G/L Bank Accounts |
| User | Role | | AR | P03013 | Customer Master |
| User1 | Receiving | | AR | P03B305 | Credit Granting/Management |
| User2 | Receiving | | AR | P03B42 | A/R Deduction Activity Master Maintenance |
| User3 | AP | \bigvee | Receiving | P03B0001 | Speed Receipts Entry |
| User4 | AP | | Receiving | P03B102 | Standard Receipt Entry |
| | | | Receiving | P03B121 | Work With Electronic Receipts Input |
| User5 | AR | × | Receiving | P03B123 | Electronic Receipt Entry |
| User6 | AR | | Tax | P0022 | Tax Rules |
| User7 | GL | | AP | P03B0002 | Invoice Revisions |
| | | | AP | P03B11 | Standard Invoice Entry |
| | | | AP | P03B11SI | Speed Invoice Entry |
| | | | AP | P03B11Z1 | Batch Invoice Revisions |

Tables such as the above will provide information of user access to sensitive transactions







• Added requirements:

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- Roles should not contain "built-in" conflicts
- Additional issues and complexity:
 - Users assigned to multiple roles
 - Users assigned access rights by User ID
 - Users accessing multiple systems



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SOD Alternatives

- Does this solve all issues? Not likely.
 - Small groups of Users
 - System constraints
 - Manual activities outside the system
- Detective controls have a role.
 - Audit trails
 - Exception reports

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Other SOD Considerations

- IT activities creating an SOD concern:
 - Application administrator access
 - Security administrator and User setup
 - Programmer access to production
 - Powerful utilities
 - Strength of authentication
 - Shared passwords
 - Access to edit/change audit tables





Maintaining SOD

Prevention

- Tools for granting User access rights
 - IT becomes a gatekeeper
 - Conflicts raised for added approval or mitigation



- Role and User change controls
- Periodic User assessments and validation



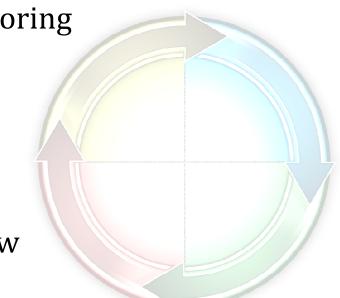


Maintaining SOD (cont.)

- Detection
 - Internal audit
 - Periodic evaluation and monitoring
 - Exception reporting
- Automated methods
 - Automated monitoring

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ERP system tools and workflow



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Key Points

- Segregation of Duties helps prevent fraud and errors.
- Detective controls can be effective.

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- Companies should identify their SOD risks and controls.
- A process is needed to correct ineffective SOD.
- Maintaining effective SOD requires processes and tools.
- Without performing an analysis, SOD issues are apparent after something bad occurs.

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Questions and Answers



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Thank You For Attending

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