

**Pacific Northwest  
Intergovernmental Audit Forum**

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## Snapshots of IT Audits

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# Snapshots of IT Audits

- General Controls – State Data Center
- Application Controls – Oregon Benefit Information System
- Special Projects & System Development – EROAD Pilot



# General Controls - State Data Center

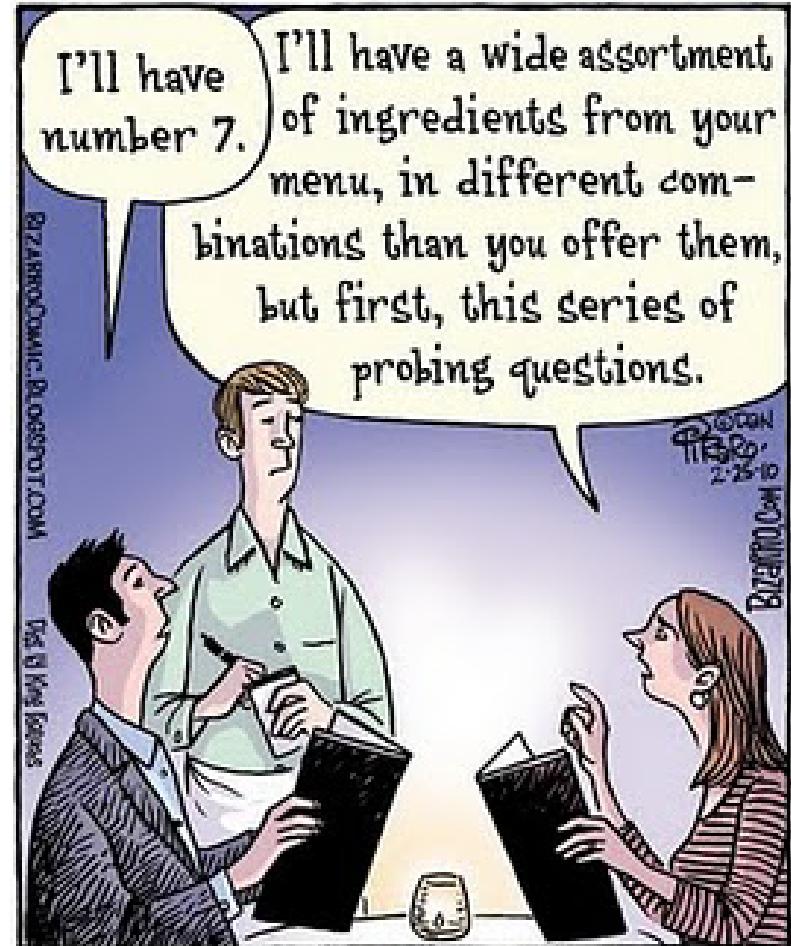
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Teresa Furnish, CISA

Senior Auditor

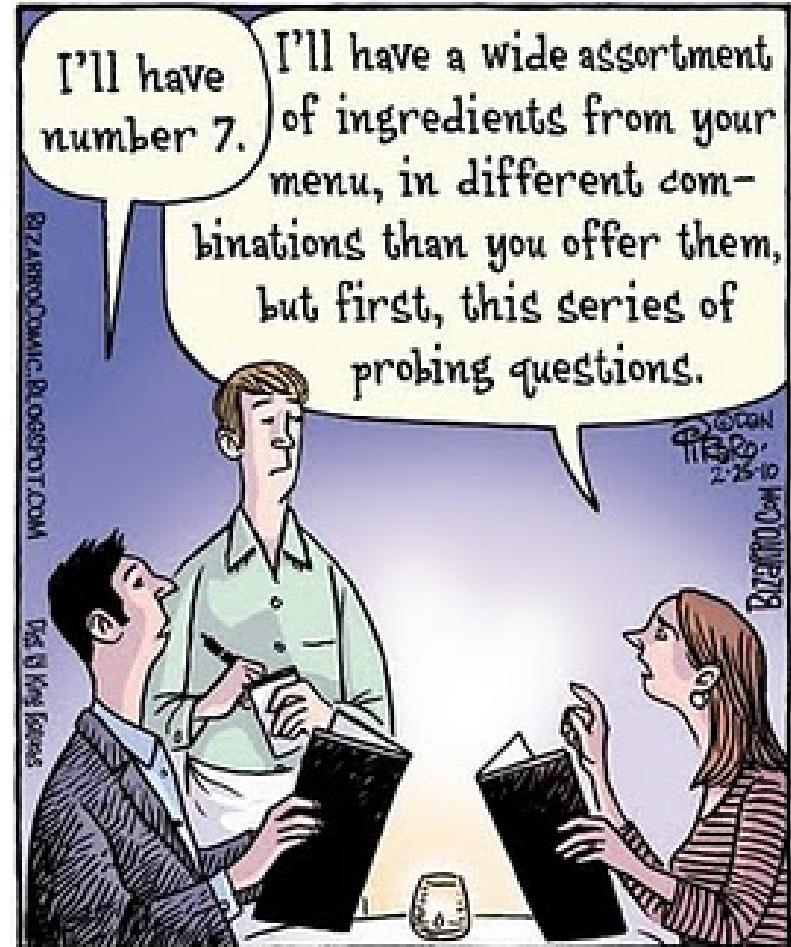
# State Data Center

- Operated by the Department of Administrative Services
- Created in 2005 through the consolidation of data centers previously operated by state agencies



# State Data Center

- Hosts the computer systems for 11 state agencies
- Provides Internet service and networking for the majority of state agencies
- Complex environment and extensive inventory



# General Controls

- The structure, policies, and procedures that apply to an entity's overall computer operations.
  - Service level agreements
  - Capacity planning
  - Production controls
  - Disaster Recovery
  - Asset & configuration management
  - Access controls
  - Security

# Operations Strengths & Weaknesses

- Environment monitored and controlled
- Routine back-ups performed for agency applications
- Computer processing on behalf of agencies well-monitored and problems investigated and resolved



# Operations Strengths & Weaknesses

- Management has not defined customer service level expectations
- Configuration management did not facilitate disaster recovery and security
- Disaster recovery strategies not fully documented or tested



# Security Weaknesses

- Long-standing problems
- Most proprietary to the State Data Center
- Agency security practices
- Budget limitations



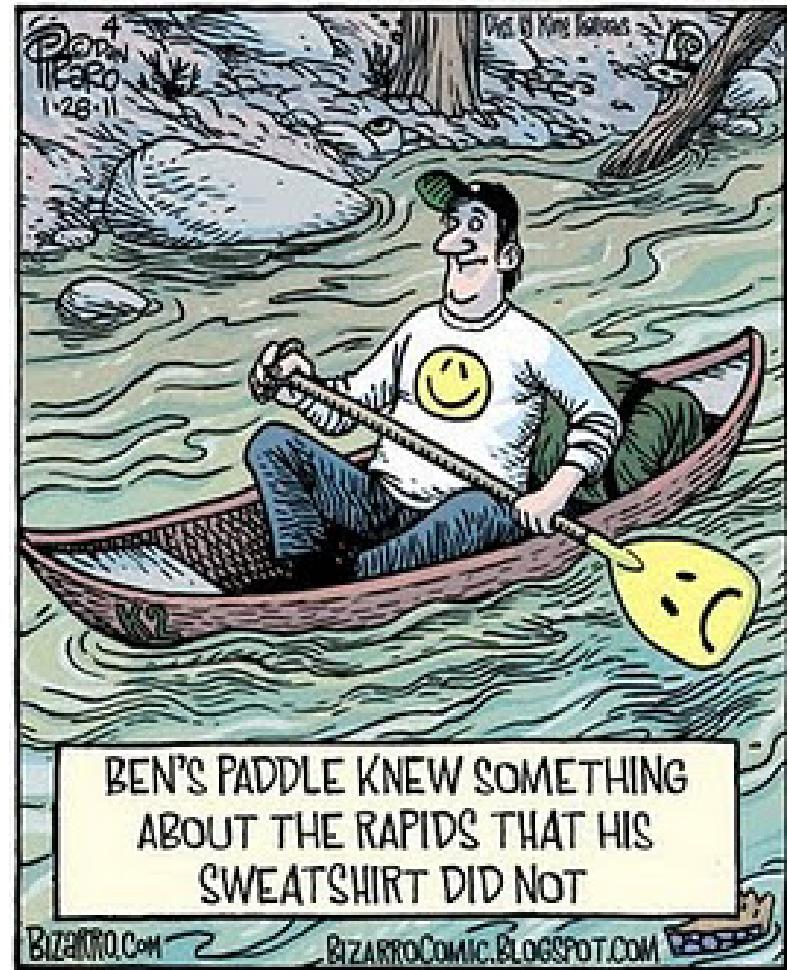
# Governance Weaknesses

- State Data Center management had not established security standards or assigned overall responsibility for security
- Governance structure not effective for managing security



# Summary

- Agencies rely on the State Data Center to provide a vital layer of security
- Weaknesses in the State Data Center affect nearly all state agencies



# Application Controls - Oregon Benefit Information System (OBIS)

Erika Ungern, CISA

Principal Auditor

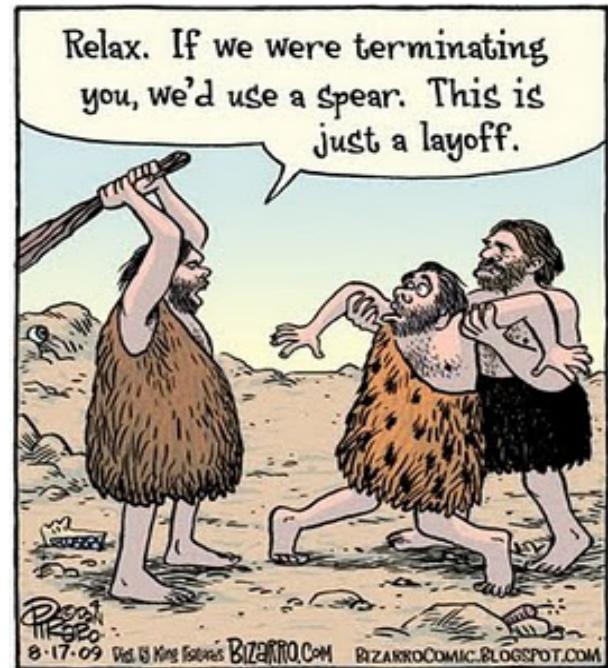
# Audit Objectives

Our objectives were to determine whether:

- Controls provide reasonable assurance that Unemployment Insurance transactions remain complete, accurate and valid during input, processing and output.
- Changes to computer code are appropriately controlled to ensure integrity of information systems and data.
- System files and data are appropriately backed up and can be timely restored in the event of a disaster or major disruption.
- Systems and data are protected against unauthorized use, disclosure, modification, damage, or loss.

# Background

- Unemployment Insurance (UI) provides partial wage replacement to workers who are unemployed through no fault of their own.
- The Oregon unemployment rate rose from 6.3% in January 2008 to 11.1% in January 2011.
- Regular benefits are paid for 26 weeks (funded through employer taxes).
- Extended benefit programs vary and are funded by various sources (mainly federal).
- Retroactive changes to laws may affect claims that have already been paid.



# Background

- The Oregon Employment Department (OED) uses OBIS to:
  - Calculate benefit amounts
  - Process and pay ongoing claims
- Accurate payments depend largely on accurate information from Claimants and Employers.
- Overpayments are inevitable.
- The most effective way to collect overpayments is to reduce future benefit payments.
- Timeliness of identification of overpayments and establishment of overpayment decisions is vital.

# Application Controls

- Controls provided reasonable assurance that claims paid through OBIS were complete accurate, and valid.
- However, we found the department could:
  - Improve its handling of unusual or complicated claims.
  - Process overpayment decisions in a timelier manner.
  - Improve procedures for correcting certain overpayments.

# Unusual or Complicated Claims

- Input control weakness:
  - Data entry was not reviewed to ensure they were valid or accurate.
- Output/error handling control weakness:
  - It was unclear whether system-generated reports showing possible errors were reviewed by staff.



# Overpayment Decisions Not Timely

Time between Overpayment Identification and Setup	Overpayment Amount	Percent of Total
0 to 3 Months	\$13 million	31.7%
3 to 6 Months	\$4.7 million	11.5%
6 to 12 Months	\$17.6 million	43.1%
More than 12 Months	\$5.6 million	13.7%
Total	\$41 million	100%

57% of overpayment “decisions” were not established (and therefore were not recoverable) until more than 6 months after discovery of the overpayment.

# Overpayment Decisions Not Established

- An additional \$15 million in overpayments were not yet input into the system – about half had been identified more than 6 months prior.
- The surprise: Approximately \$6 million were not even in the queue to be processed as overpayments.
  - Weak tracking of documentation (manual or automated).
  - Extra staff was assigned to attempt to reduce the backlog – some of these staff made mistakes that resulted in source documents needed for overpayments to be generated.
  - Lack of automated controls to identify missing documents.

# “Intentional” Overpayments

- In one type of situation, the “fix” for an erroneous payment made the situation worse.
- Business decision to pay a claimant twice for the same benefit week under two different benefit programs.



# Intentional Overpayments - Example

- One claimant was paid \$482 per week for 12 weeks under an extended benefit program.
- Staff discovered these weeks should have been paid under a new claim that paid only \$179 per week. Therefore, the original payment was overpaid by \$303 for each week.
- To “fix” the situation, OED paid the same 12 weeks again for \$179 per week on the new claim. There was no recoupment of the original overpayment applied to the new payment, leading to a total overpayment of \$482 per week.
- The claimant submitted a hardship waiver and was not required to pay back any of the overpayment.

# Intentional Overpayments

- Overall, treatment of these cases led to additional \$5.5 million in overpayments (added to \$4.1 million overpayment in the original payment).
- Management decision based on interpretation of laws (“prompt payment” and “due process.”)
- OED sometimes created “combination” decisions that allowed the new payment to be offset by overpayment amounts from the original payment, but:
  - Paperwork process for such decisions took 2-4 hours per case.
  - Limited resources available.
  - Business decision not to do these in every case.

# Application Controls - Recommendations

- We recommend that department management take steps to better ensure accurate payment of Unemployment Insurance claims by establishing:
  - additional automated or manual processes to better prevent system input errors;
  - more robust error detection procedures to identify payment anomalies and ensure their timely correction;
  - procedures to ensure that identified overpayments are monitored to ensure that associated overpayment decisions are appropriately generated;
  - staffing requirements for the overpayment unit to ensure timely processing of overpayment decisions; and
  - procedures for correcting overpayment errors that ensure compliance with federal regulations.

# Special Projects & System Development – EROAD Pilot

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Neal Weatherspoon, CPA, CISA, CISSP

IT Audit Manager

# Special Projects & System Development



Our IT audit team sometimes gets the nod to evaluate a new system or technology.

Eg. Data center consolidation, MMIS implementation, Statewide Identity and Access Management, PERS systems.

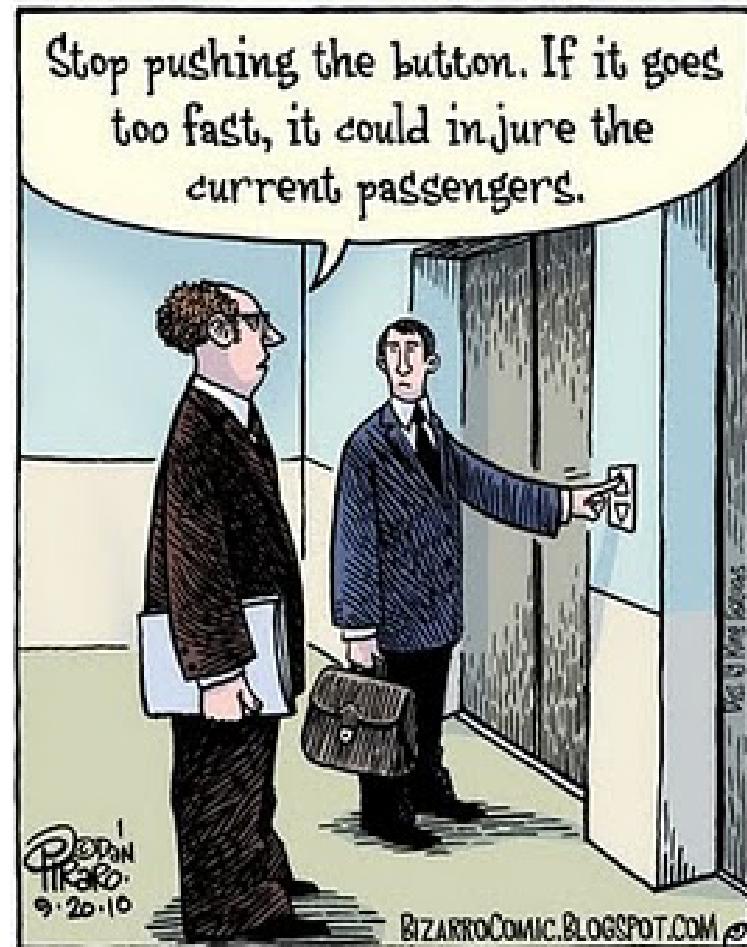
# The Unusual Request



Can you..  
....Should you..  
.....Will you..  
Audit an emerging  
technology....  
Operated by a foreign  
entity....  
In the Internet cloud?

# Auditing In the Cloud- Objective #1

Determine whether EROAD web-based services provides a secure and stable environment for transmitting, processing and storing carrier weight-mile tax information.



# The Test – Objective #2

Determine whether the EROAD system accurately and reliably captures and calculates Oregon weight-mile tax information to meet record-keeping requirements of OAR 740-055-0120.



# ODOT's Part – Objective #3



Determine whether ODOT established an appropriate and secure electronic interface for accepting carriers' system-generated weight-mile tax information.

# Results



- The system accurately and reliably captured and calculated weight-mile tax information.
- EROAD provided a secure and stable processing environment.
- ODOT had not yet developed an electronic interface.

# Credits

*A special thanks to Dan Piraro, creator of the syndicated newspaper cartoon, Bizarro, for his written permission to use his work to help liven this otherwise dull audit presentation.*

To enjoy more of Dan's work go to <http://bizarrocomics.com/>