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Data Disruption

510 - Data Security and Privacy: Legal, Policy, and Enterprise Issues University of Michigan School of Information Week 12

Data Disruption - 3

Steps

Immediate emergency response
 Transition to business continuity
 Requires Business Continuity Planning

 Assessment of ability to resume operation

Disruptions

Temporary vs long term
Interim access questions
Immediate situation or advance warning
Damage to data or only systems
Data and systems OK but access to facility denied or limited

Reaction Models

Reactive

- No plans or measures to address
- Need meetings
- Must make decisions
- May be impossible to resume without advance arrangements to replace employees, equipment, data
- Proactive
 - Dig the Business Continuity Plans out

Business Continuity Planning

Allows business to move on after emergency response
Continue operation
Resume operation
BC Program - overall
BC Plan - individualized for system, facility, etc.

BCP Elements

- Project Initiation & Management
- Risk Evaluation & Control
- Business Impact Analysis
- Developing Business Continuity Program
- Emergency Response & Operations
- Developing & Implementing BCP
- Awareness & Training Programs
- Maintaining & Exercising BCP
- Crisis Communications
- Coordination With External Agencies

Analyze

- Analyze business processes with relation to
 - Personnel
 - Information
 - Finances
 - Facilities/Equipment
- Track through
 - Normal
 - Disruption
 - Recovery

BCP Operations Levels

Normal

Recovery

- Time to recovery level
- Resume normal
 - Time to normal
- Recovery Point Objective
 - Maximum amount of work in progress that can be lost
- Identify necessary support personnel, processes, technology

BCP Phases

- Prevention and Preparedness
- Response
- Recovery
- Restoration

Prevention and Preparedness

- Prevent problems
- Minimize loss where problem is unavoidable
- Develop BCP to recover operations to level and in time period that acceptable to management
- Do risk and business impact analyses
- Develop recovery strategies
- Provide training, exercises, awarenessMaintain and adjust BCP

Response

- Notify continuity team leaders
- Act to minimize loss
- Make initial damage assessment
- Decide on whether to activate BCP recovery procedures

Recovery

- Resume operations at an alternate facility
- Restore computer systems and data
- Recover business operations within the Recovery Time Objective to the Recovery Operations Level
- Invoke crisis management and communications procedures

Restoration

- Assess damages
- Determine what can be salvaged and what must be replaced
- Restore / rebuild facility and resources
- Return operations from the alternate facility to a permanent facility