

ISACA

Houston Chapter - Seminar

10-18-2007

“How to Assess your Business Continuity Plan”



Our Service Delivery

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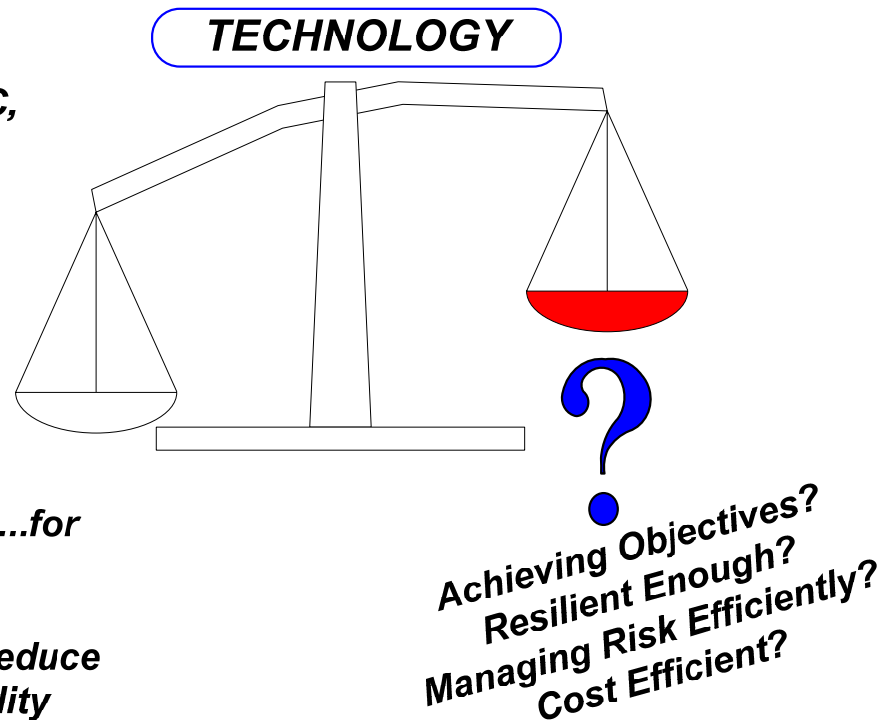
AGENDA

- ✓ **IT Governance & Continuity Risk**
- ✓ **Business Continuity Management**
- ✓ **IT Continuity Controls / Audit Guidelines**
- ✓ **Business Impact Assessment “Starting Point” Exercise**

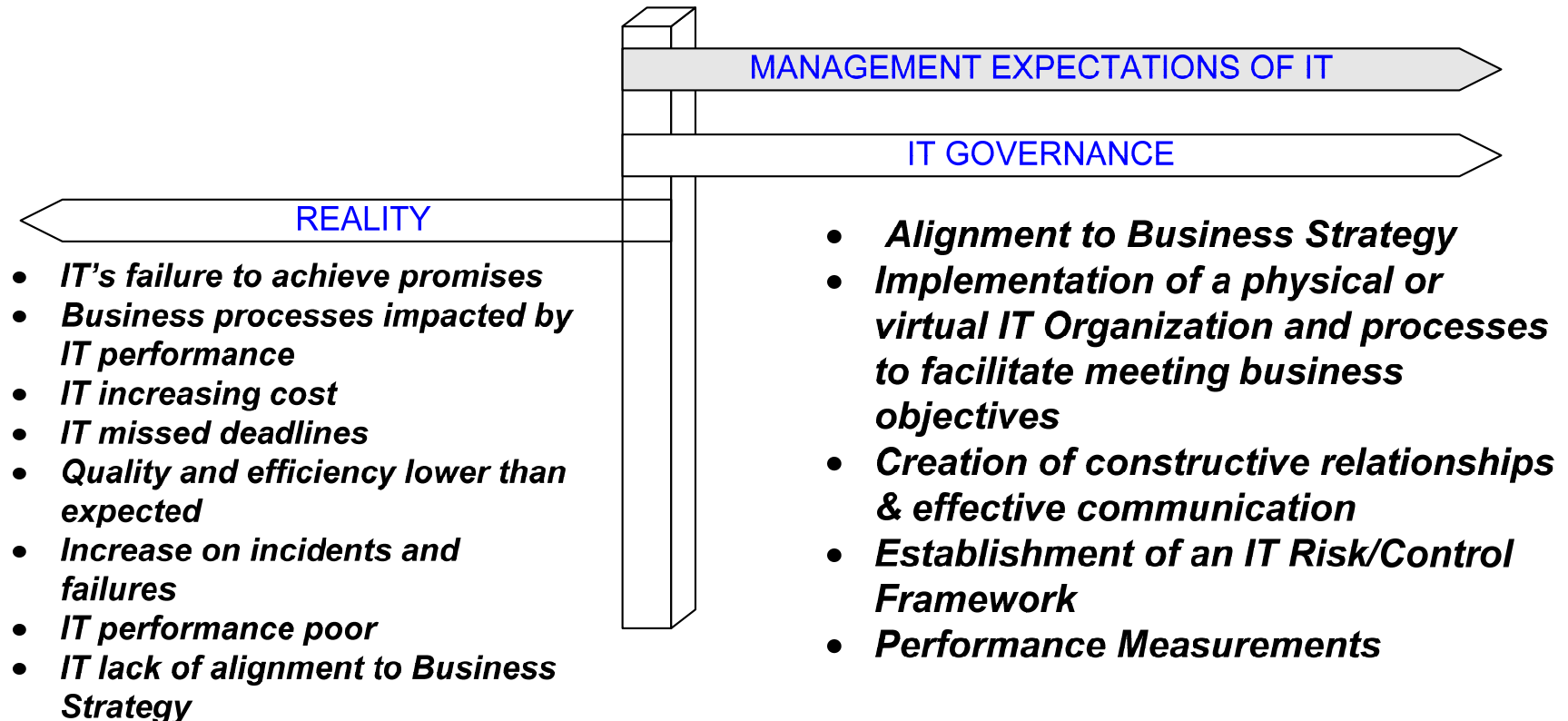
IT Governance & Continuity Risk

Why Manage IT Risk?

- To meet the continuous need to sustain the business and new business models
- To comply with the increase in regulations (i.e. SOX/COSO, FFIEC, FDIC, BASEL...)
- To consolidate IT disciplines overlapping risk management efforts
- To promote effective communication and alignment of IT to the Business
- To increase operational resilience...for the continuity of the business
- To achieve process efficiency to reduce cost and increase service availability and delivery



IT Governance & Continuity Risk Management Expectations



IT Governance & Continuity Risk

What is IT Governance?

IT Governance

Structure

Relationships and Processes

Direction & Control

Achieves Enterprise Goals

Adds Business Value

Balances Risk vs. Return

“Over Information Technology”

IT Governance & Continuity Risk

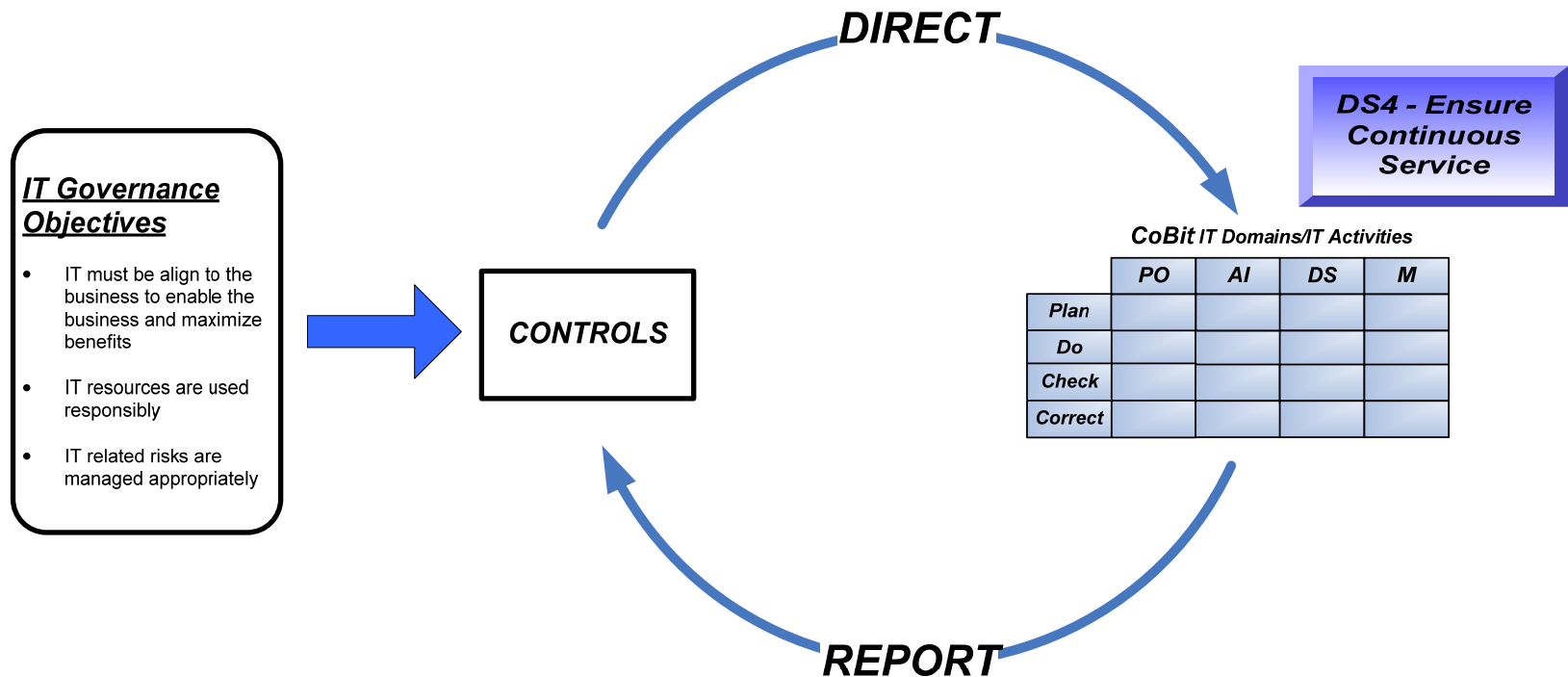
Why IT Governance?

Allows you to...

- Use IT's enabling capacity for new business models and changing business practices
- Achieve an appropriate return on IT's investment
- Manage *technology risk*
- Maintain IT's ability to build knowledge
- Reduce/Control IT failures that impact enterprise value and reputation

IT Governance & Continuity Risk

Directs and Controls



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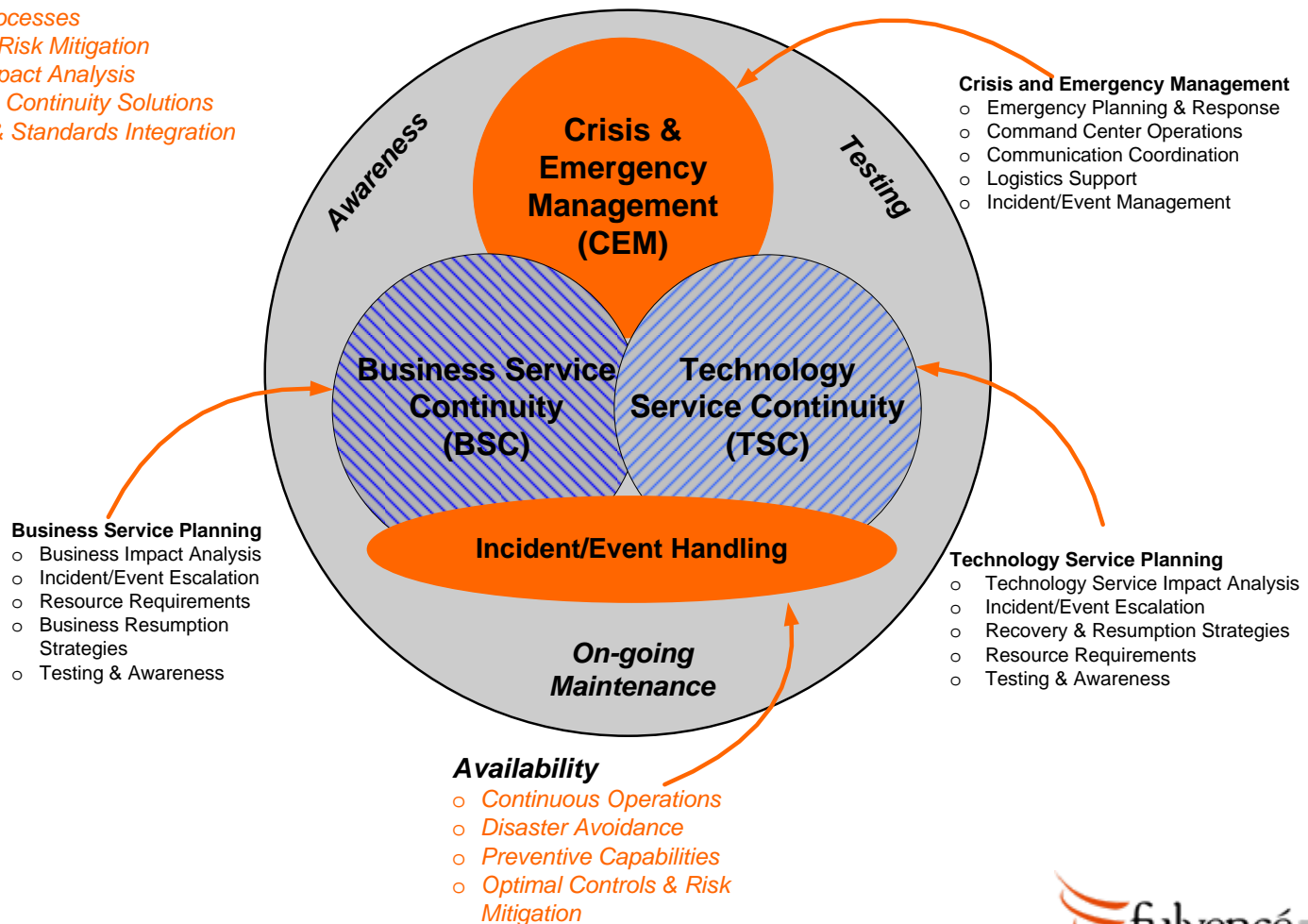
BC Definitions...Confused!!!

- ❑ Business Continuity Management
- ❑ Crisis or Incident Management
- ❑ Disaster Recovery Planning
- ❑ Business Resumption Planning
- ❑ Technology Continuity Planning
- ❑ Resilience & Continuity
- ❑ Business Impact Analysis (BIA)

Business Continuity Management FRAMEWORK – “The Three Bubbles”

Enterprise-Wide Approach

- Business Processes
- Operational Risk Mitigation
- Business Impact Analysis
- Resilience & Continuity Solutions
- Regulatory & Standards Integration



Business Continuity Management

PLANNING PROCESS

Threat/Risk Assessment

- Identify vulnerabilities/risks
- Determine Impact and Likelihood
- Establish Threat Score

*Business /Technology Impact Assessment**

- Identify process configuration & dependencies
- Define RTO & RPO**
- Prioritize processing

Plan Development

- Identify Resources
- Define Required Configuration
- Develop Response & Recovery strategies
- Document plans

Validation / Testing

- Determine Types of Exercise
- Conduct Validation Exercise
- Exercise Summary Report

Plan Maintenance

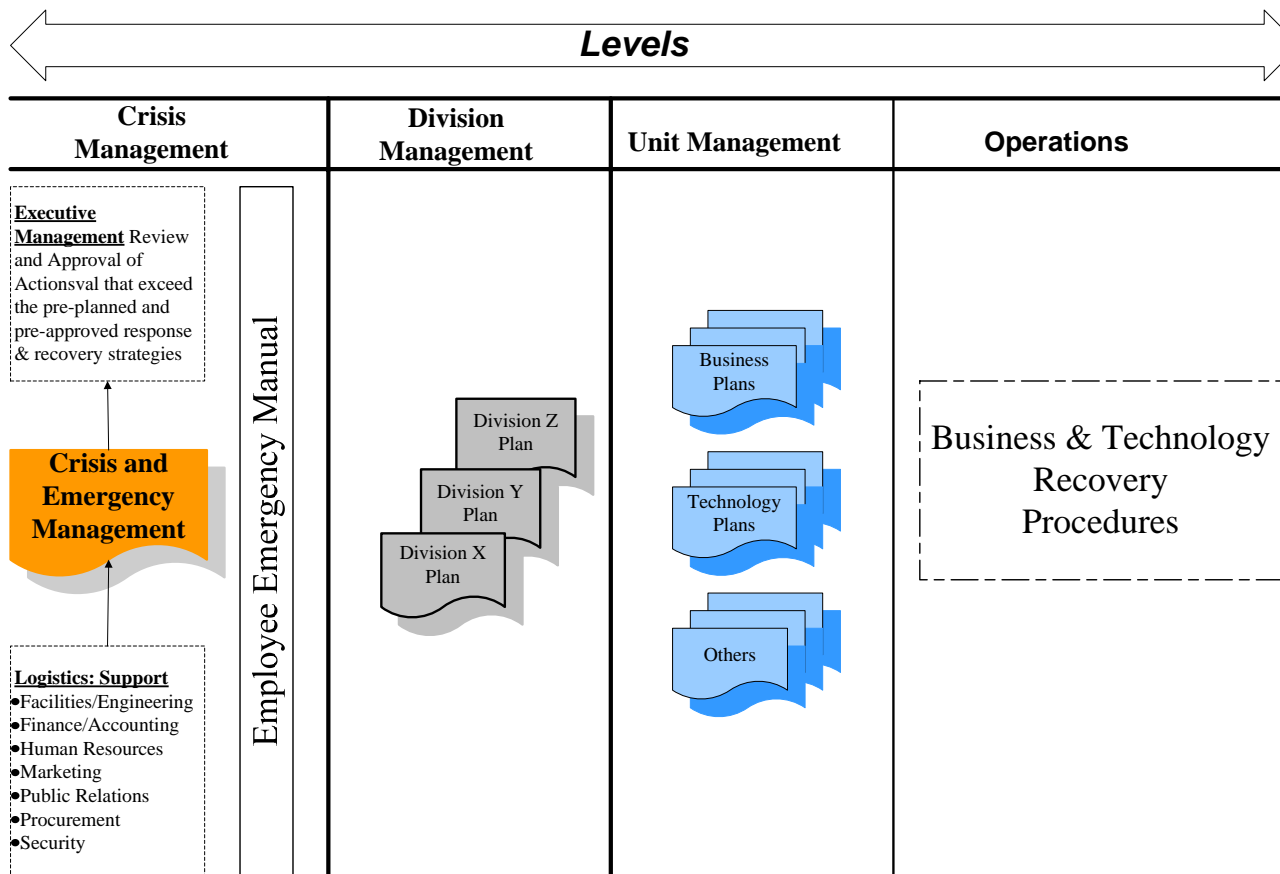
- Plan Updates
- Plan Administration
- Plan Distribution

Ongoing Governance Activities

- Plan for New Processes and Configurations
- Perform Operational Resilience Analysis (Risk & Impact)
 - Conduct Validation Exercise
 - Perform Maintenance & Updates

Business Continuity Management PLAN STRUCTURE

Resilience & Continuity Plan Structure



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IT Continuity Controls and Audit

Ensure Continuous Services - CONTROLS

- ☐ **Continuity Framework**
- ☐ **IT Continuity Plans**
- ☐ **Critical IT Resources**
- ☐ **Maintenance of the IT Continuity Plan**
- ☐ **Testing the IT Continuity Plan**
- ☐ **IT Continuity Plan Training**
- ☐ **Distribution of the IT Continuity Plan**
- ☐ **IT Services Recovery and Resumption**
- ☐ **Offsite Back-up Storage**
- ☐ **Post Resumption Review**

Continuity Framework

- **Assure that a framework has been developed for IT Continuity to support the business with a consistent process**
 - BCM Policy
 - Framework Diagrams
 - IT Strategic Plan – Business Continuity Strategy
- **Assure the framework addresses the organizational structure covering roles, tasks, responsibilities of internal or external service providers, management and customers .**
 - BCM Policy or Plans (Crisis Management, DR or Business)
 - Service Provider Contracts
 - Service Provider's SAS70 Type 1 or 2
- **Assure that rules and structure are available to document, test and execute the Business Continuity/Technology Continuity Plans**
 - Procedures or Working Templates

IT Continuity Plans

- **The IT Continuity plans must be design to reduce the impact of a major disruption on key business functions**
 - Recent Risk Assessment
 - Recent Business Impact Assessments
 - Up to date Technology Plan (s)
- **Plans should address requirements for resilience**
 - Business Impact Assessments
 - Evaluate Plan Scenarios and Responses
- **Plans should address Alternate Processing and Recovery Capabilities for critical IT Services.**
 - Business Impact Assessment – Critical Services
 - Evaluate Plan Alternate Locations
 - Alternate Site Assessments

Critical IT Resources

- **Ensure critical items are in the plans and priority has been established**
 - Business Impact Analysis- Process Risk Rating & Resource Item Reliance Rating
- **Assure Regulatory requirements are met for all critical items**
 - Define enterprise regulations
- **Consider resilience, response and recovery requirements are met for different tiers**
 - Business Impact Analysis-Critical Services RTO

Maintenance of the IT Continuity Plan

- **Change Control procedures are in place to assure plan maintenance and reflects the business requirements**
 - Business Impact Analysis – Business Requirements
 - Review of Change Management Design and Scope
 - Compare Change transactions impacting Recovery or Resumption solutions to assure the plan meets current business solutions

- **Assure procedure and responsibility changes are communicated clearly and in a timely manner**
 - Awareness Program
 - Change Communication Frequency
 - Plan Update and Distribution documents

Testing the IT Continuity Plan

- **Ensure test are performed on a regular basis ensuring IT System effective recovery**
 - BCM Policy
 - Business Impact Analysis – Critical Services/Systems
 - Testing Procedures or Schedules
- **Ensure test results are documented , reported and action plans prepared for remediation**
 - BCM Policy
 - Testing Procedures or Methodology
 - Remediation Action Plans and Schedule – “Lessons Learn”
- **Determine types of testing executed to evaluate testing extent and effectiveness**
 - BCM Policy
 - Testing Procedures or Methodology
 - Testing Plan and Results

IT Continuity Plan Training

- **Training Sessions should be planned and schedule to include key personnel and service providers**
 - BC Policy
 - Training Procedures
 - Training Evidence – Presentations, tabletops, simulations

- **Verify training is performed for remediation done as a result of plan testing or actual event impact**
 - BC Policy
 - Testing Procedures or Methodology
 - Training Evidence – Presentations, tabletops, simulations

Distribution of the IT Continuity Plan

- **Ensure a defined and managed distribution strategy exist**
 - BC Policy
 - Plan Distribution Control List

- **Ensure plans are accessible under any scenario**
 - Threat and Risk Assessment
 - Business Impact Analysis
 - Gather Evidence to determine plan accessibility

IT Services Recovery and Resumption

- **Assure plan includes recovery and resumption of services**
 - Business Impact Analysis
 - Technology Plans
 - Technology Recovery and Resumption Strategy and Procedures
- **Assure activation procedures are in place and current, supporting back-up sites and alternate processing**
 - Activation Strategy in Plans
 - Activation Procedures
 - Compile all Back-up Sites and Alternate Processing Facilities
- **Assure Customers, Service Providers and Business Functions are activated and notified**
 - Business Impact Analysis – List of Service Providers
 - Technology Plans
 - Technology Recovery and Resumption Strategy and Procedures
- **Ensure communication with the Business or Management on IT Recovery Times and Technology Investment**
 - Management or Board Presentation Minutes
 - Management Testing or Training

Offsite Back-up Storage

- **Ensure critical back-up media, documentation and necessary IT resources for recovery and resumption are store Offsite**
 - Back-Up Data & Media Offsite Storage Procedures
 - Business Impact Analysis – Recovery Point Objective (RPO)
 - Operations Daily Log – Back-up frequency and media location
- **Ensure Back-up content meets business requirements**
 - Operations Daily Log – Back-up frequency and media location
 - Offsite Media Log
 - Back-up Equipment Compatibility
- **Ensure management of the offsite storage responds to the data classification policy and the enterprise**
 - Enterprise Data Classification Policy
 - Offsite Data Classification Policy
- **Ensure Offsite premises arrangements are periodically assess, at least annually for content, environmental protection and security**
 - Offsite Assessments
 - Offsite Service Provider Agreement
 - SAS70's

Post Resumption Review

- **After a disaster IT Management should determine lessons learn or changes to enhance plan and recovery strategies**
 - Incident Summary Reports
 - Management Presentations - Incidents
 - “Lessons Learn” and Remediation Action Plans

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Business Impact Analysis (BIA)

BIA is a process designed to:

- **identify** critical business functions and workflows,
- **determine** the qualitative and quantitative impacts of a disruption,
- **prioritize and establish** recovery time objectives and recovery point objectives.

Business Impact Analysis – Key Functions

Process Impact Assessment...

- Plan for highest Probability/Damage Threats
- Define and understand your Business Processes
- Use “architecture diagrams” to select configuration items
- Understand your dependencies
- Determine process work schedule and peak periods

Process Analysis...

- Determine your process “Recovery Time Objective (RTO)” by threat for each process

RTO – Maximum time a business process can be unavailable before adversely affecting your business objective.

Business Impact Analysis – Key Functions

Configuration Item Analysis...

- Determine your “process” Configuration items
- Determine the impact of each item to your process objective
- Determine the “Recovery Point Objective (RPO)” for all items that contain data

RPO – Point in time in which data must be restore after an outage. Critical for the development of your recovery and back-up strategy.



Q & A

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