# Selecting the Right Business Continuity Strategy

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## Introduction

The first step in developing a customized business continuity plan (BCP) is to conduct a business impact assessment. This comprehensive risk evaluation and business impact assessment (BIA) will identify the organization's core business processes and their critical dependencies. Because the organization's recovery strategy must be based on the recovery of the core business processes and their critical dependencies, the strategy ultimately selected may be two-tiered:

- Technical desktop, client/server, midrange, mainframes, data and voice networks, third-party providers
- Business logistics, accounting, human resources, etc.

When the organization's executive management has signed off on the BIA report and endorsed the recovery of the recommended core business processes and the priority of recovery, BCP recovery strategies must be developed for each business process. Ideally, all business units should participate in the development of these BCP recovery strategies. As experienced staff in the business unit's understands their business processes, they should be approached to suggest recovery strategies. A recovery strategy workshop is an ideal forum to develop the BCP recovery strategy with input from the business units. This will ensure that there is ownership of the BCP strategy and the "plan" by the business units.

# **Recovery Strategy Workshop**

The purpose of the recovery strategy workshop is to identify appropriate recovery strategies for each core business process and the risks associated with each strategy. Of particular interest are recovery strategies that are low risk and cost effective. Too often, there is a greater emphasis on cost and benefits without consideration given to the risks associated with the recovery strategy. The BCP coordinator (*i.e.*, the person responsible for developing, implementing, and maintaining the organization's BCP) must select the right recovery strategy and must also minimize the risks associated with that strategy. The BCP coordinator should be the workshop facilitator because he or she has a deep knowledge of business continuity planning and risk management training, as well as a good understanding of the organization's strategic objectives and processes. Business unit attendees should have a good working knowledge of their business processes.

TABLE 37.1 Recovery Risks

No.	Risk Description				
1	Damage to the bank's brand (i.e., reputation)				
2	Customer impact — financial and service				
3	External service level agreement (SLA) partner not compliant with agreement				
4	Holdover (delayed processing)				
5	Timeframe lag				
6	Funding of recovery				
7	Resource shortage — staff				
8	Resource shortage — skills				
9	Resource shortage — equipment				
10	Resource shortage — stationery/stores				
11	Internal coordination				
12	External coordination				
13	Logistics (e.g., transportation of staff, work)				
14	Employee's union				
15	Legislative requirements				
16	Third-party suppliers (non-provision of services)				
17	Denial of access to alternative processing sites				
18	Internal/external communications				
19	Incompatible information technology				
20	Internal SLA partner not compliant with agreement				
21	Physical security over source documents				

## **Recovery Strategies**

During the workshop, the BCP coordinator will assist the business unit staff in identifying BCP recovery strategies for each core business process. It is not unusual to find that the initial recovery strategy suggested by the workshop attendees is high risk and not cost effective. As a case study, take a look at the banking sector and one of its core business processes, that of processing customer checks and exchanging checks with other banking institutions. At the workshop, attendees would identify a number of BCP recovery strategies for processing checks; for example:

- Have a service level agreement with another bank to process all work.
- Branch network processes all credits and service level agreements with another bank to complete check processing and exchange checks.
- Branch network to processes all credits and forwards all checks to an intrastate/interstate center for final processing and check exchange.
- Forward all work to an intrastate/interstate center for processing.
- Do nothing.

## Strategy Risks

To continue this case study for the core business process of processing checks, the workshop attendees (with the assistance of the BCP coordinator) would identify a range of recovery risks that may be applicable (see Table 37.1).

## **Assessing Risks**

The BCP coordinator, with assistance from the workshop attendees and utilizing the BCP recovery strategy risks (as per Table 37.1) and a risk assessment methodology (e.g., AS4360 Risk Management; refer to Table 37.2), assesses each recovery strategy and the associated risks. A risk assessment matrix is then applied for likelihood and consequences to derive a risk score.

TABLE 37.2 Risk Management Methodology

**Descriptor** Meaning

#### Likelihood of Event Table

Almost Certain the event is expected to occur in most circumstances.

Likely The event will probably occur in most circumstances.

Moderate The event should occur at some time.

Unlikely The event could occur at some time.

Rare The event may occur only in exceptional circumstances.

### **Consequences of Event Table**

Catastrophic Complete disaster with potential to collapse activity.

Major Event that, with substantial management, will be endured.

Moderate Event that, with appropriate process, can be managed.

Minor Consequences can be readily absorbed; however, management effort is required to minimize impact.

#### Risk Assessment Matrix

#### Likelihood

	Almost					
Consequences	Certain	Likely	Moderate	Unlikely	Rare	Irrelevant
Catastrophic	High	High	High	High	Significant	N/A
Major	High	High	High	Significant	Significant	N/A
Moderate	High	Significant	Significant	Moderate	Moderate	N/A
Minor	Significant	Significant	Moderate	Low	Low	N/A

What the risk value meanings are:

High High risk — detailed research and management planning required at high levels

Significant risk—senior management attention needed

Moderate Moderate risk — specific risk management processes must be developed

Low risk — can be managed by routine procedures

Source: From AS4360 — Risk Management Standards, Australia.

Each recovery strategy score is then risk ranked to provide an indication of the level of risk associated with each recovery strategy (refer to Table 37.3). The BCP recovery strategy that offers the lowest levels of risk in execution and the greatest opportunity of success will be costed.

## **Recovery Strategy Costs**

The two levels of costs are pre-event and event costs. Pre-event costs are incurred in either implementing risk mitigation strategies or allocating of resources (including human and financial) and capital expenditure to developing the necessary infrastructure for the BCP recovery strategy. These costs may include, for example:

- *Information technology* 
  - Hot site Fully operational computer center, including data and voice communications
  - Alternate LAN server LAN server fully configured, ready to be shipped and installed at the same site or alternate site
  - Physical separation of telecommunications network devices (previously centralized) to reduce the likelihood of a single point of failure
  - Establishment of service level agreements with BCP recovery company (*i.e.*, hot, warm, or cold sites and mobile).
  - Duplication of telecommunications network (e.g., another telecommunication carrier, switching capability)
  - Creation of a full-time BCP team that is responsible for maintaining and testing the organization's technical BCP

Banking sector: Processing checks Bank core process: Check processing (deposits and checks) and exchange Assigned Strategy Risks Risk Rating **BCP Strategy 1** Have a SLA with another bank to 1. Brand damage Moderate process all work. 2. Customer impact Low 3. Other banking party noncompliant with SLA High 4. Holdover High 5. Timeframe impact Low 6. Funding High 7. Staff shortage Significant High 8. Equipment shortage 9. Logistics Moderate 10. External coordination and cooperation Low 11. Stationery/stores Moderate 12. APCA requirements Significant 13. Other legislative requirements Moderate 14. Internal/external communications **BCP Strategy 2** Branch network processes all 1. SLA banking party not compliant Low credits and SLA with another 2. Holdover Significant High bank to complete check 3. Timeframe impact 4. Funding processing. Low 5. Staff shortage High 6. Equipment shortage Moderate 7. Internal coordination and cooperation Moderate Moderate 8. Logistics 9. Union Significant 10. External coordination and cooperation Moderate 11. Skills shortage Significant Moderate 12. APCA requirements

• Equipment. The purchase and maintenance of redundant equipment at an alternative site (e.g., microfilm readers, proof machines, image processors), particularly if there is a long lead time to source and procure equipment.

13. Other legislative requirements

14. Internal/external communications

Moderate

- *Third-party service providers*. Third-party service providers are requested to develop a BCP requirement to meet organizational (customer) requirements. Some proportion of this cost may be borne by the organization requesting that this functionality or facility be provided.
- Dependency on third-party service providers for business continuity purposes. This is a major concern to BCP coordinators. When third-party service providers have been identified as critical to the day-to-day operations of the business, BCP coordinators are to seek assurance that these service providers have a demonstrable BCP in the event of disaster striking their organization.
- Service level agreements (SLAs). The costs associated with external suppliers readily providing services or products (non-IT) in the event of a disaster.
- *Vital records*. A vital record program that identifies all critical records required for post-recovery core business processes. Costs may be incurred in the protection of these records (*e.g.*, imaging, offsite storage) to ensure that they will be available in the event of a disaster.

Event costs are incurred in implementing the BCP strategies in the event of a disaster. The costs are an estimation of the likely costs that would be incurred if the BCP were activated for a defined period (*e.g.*, 1 days, 14 days, 21 days, 30 days). These costs would include, but are not limited to:

Strategy	Risks	Assigned Risk Rating	
BCP Strategy 3			
Branch network processes all	1. Holdover	High	
credits; forwards all checks to an	2. Timeframe impact	High	
interstate day 1 OPC for	3. Funding	Low	
processing.	4. Staff shortage	Significant	
	5. Equipment shortage	Moderate	
	6. Internal coordination and cooperation	Moderate	
	7. Logistics	Significant	
	8. Union	Moderate	
	9. Stationery/stores	Low	
	10. APCA requirements	Significant	
	11. Denial of access to alternative premises	Moderate	
	12. Internal/external communications	Moderate	
BCP Strategy 4			
Forward all work to an interstate	1. Brand damage	High	
day 1 OPC for processing.	2. Customer impact	High	
	3. Holdover	High	
	4. Timeframe impact	High	
	5. Funding	Low	
	6. Staff shortage	High	
	7. Equipment shortage	Significant	
	8. Internal coordination and cooperation	Moderate	
	9. Logistics	High	
	10. Union	Significant	
	11. Stationery/stores	Moderate	
	12, AOCA requirements	Significant	
	13. Denial of access to alternative premises	Moderate	
	14. Internal/external communications	Moderate	
BCP Strategy 5			
Do nothing.	Not considered, as it is unrealistic	N/A	

- Activation of SLA Often a once up cost plus ongoing costs until services or products are no longer required (cessation of disaster)
- Staffing (e.g., overtime, temporary, contractors)
- Logistics (e.g., transportation of staff and resources, couriers)
- Accommodation costs (*e.g.*, hire/lease of temporary offices, accommodations for staff and other personnel)
- Hire/lease or procurement of non-IT resources (e.g., desks, chairs, tables, safes, cabinets, photocopiers, stationery)
- Hire/lease or procurement of IT resources (*e.g.*, faxes, handsets, printers, desktop PCs, notebook computers, terminals, scanners)
- Miscellaneous costs (e.g., insurance deductible, security and salvage of assets at disaster site, cleanup of disaster site, emergency services costs)

The BCP coordinator is to determine that all pre-event and event costs have been included and are reasonably accurate. Ideally, the BCP coordinator should request an independent party (for example, the organizations' audit department) to review the cost components and value to ensure they are all complete and accurate.

TABLE 37.4 Costs of Two Strategies

	Accumulative Event Costs						
BCP Strategy	Pre-Event Costs	1 Day	1 Week	2 Weeks	3 Weeks	4 Weeks	Total Costs
Strategy 2	\$150K per annum	\$75K	\$255K	\$375K	\$515K	\$730K	\$880K
Strategy 3	Nil	\$150K	\$415K	\$875K	\$1.2M	\$3.2M	\$3.2M

## Recovery Strategy Risks Versus Costs

Once the costs (pre-event and event) have been determined, an analysis of the recovery strategy risks *versus* costs is to be performed. The objective of this analysis is to select the appropriate recovery strategy, which is balanced against risk and cost. For example, using the case study above, the recovery strategies that offer the lowest risks for implementation are:

- Strategy 2. Branch network processes all credits and SLAs with another bank to complete check processing and exchange checks.
- *Strategy 3*. Branch network processes all credits and forwards all checks to an intrastate/interstate center for final processing and check exchange.

An analysis of Table 37.4 indicates the following:

- Strategy 2
  - · Highest risk of the two strategies being considered for implementation
  - Pre-event cost of \$150,000 per annum for the service level agreement
  - Lowest event cost of the two strategies of \$730,000
- Strategy 3
  - Lowest risk of the two strategies being considered for implementation
  - No pre-event costs
  - Highest event cost of the two strategies by \$3.2 million
  - The longer the outage lasts, the greater the increase in event costs

The decision to be made is whether the organization is prepared to accept higher risks with lower event costs or a lower risk strategy with higher event costs. In other words, it is a trade-off between risks the organization is prepared to accept and the costs the organization is prepared to spend. However, where two strategies are of equal risk and similar cost value, then a third element is brought into the evaluation process — benefits. The benefits, including tangible and intangible, for each strategy are to be evaluated against the risks associated with the recovery strategy. Further, the benefits are to be considered in the short and long term with regard to the added value to the organization operating in a dynamic and competitive market.

## Summary

Organizations who undertake business continuity planning often do not take the time to analyze the risks associated with a selected BCP recovery strategy, to determine if it is low risk and the cost of implementation is acceptable. The BCP coordinator's role is enhanced by ensuring that the right BCP recovery strategies are selected for the organization. The reality is that in the event of a disaster, selecting the wrong strategy may actually exacerbate the disaster. This potentially may lead to the organization going out of business. However, by performing a risk *versus* cost analysis of the BCP strategies, the BCP coordinator will reduce the potential exposures the organization will face in the execution of the business continuity plan (*i.e.*, implementation of the recovery strategy) and strengthening the recovery process.