MARKET STUDY

The State of IT Resiliency and Preparedness

By RACHEL DINES

Forrester Research and the Disaster Recovery Journal have partnered to field a number of market studies in business continuity (BC) and disaster recovery (DR) in order to gather data for company comparison and benchmarking and to guide research and publication of best practices and recommendations for the industry. This is the seventh annual joint survey study, and it’s focused on gathering a baseline for company DR preparedness. This study repeated many of the questions that we asked in 2007 and 2010, to determine what has changed in DR during the past several years. Specifically, this study was designed to determine:

- Company practices regarding DR planning, DR plan maintenance, and DR testing.
- The percentages of companies that have alternate recovery sites, the number of sites, and the distance between sites.
- Current recovery objectives and technology selection.
- Company confidence in DR preparations and preparedness.
- The most common causes of disaster declarations and downtime and the cost of downtime.
- Market drivers fueling continued improvement in DR preparedness.

Study Methodology

In the fall of 2013, Forrester Research and the Disaster Recovery Journal (DRJ) conducted an online survey of 96 DRJ members. In this survey:
Thirty-seven percent of respondents were from companies that had 0 to 999 employees; 26 percent had 1,000 to 4,990 employees; 17 percent had 5,000 to 19,999 employees; and 20 percent had 20,000 or more employees.

All respondents were decision-makers or influencers in regard to planning and purchasing technology and services related to disaster recovery.

Respondents were from a variety of industries.

This survey used a self-selected group of respondents (DRJ members) and is therefore not random. These respondents are more sophisticated than the average. They read and participate in business continuity (BC) and disaster recovery publications, online discussions, etc. They have above-average knowledge of best practices and technology in BC/DR. While nonrandom, the survey is still a valuable tool in understanding where advanced users are today and where the industry is headed.

Executive Summary

This year’s survey reveals a mixed bag of DR preparedness. On the one hand, testing and plan maintenance is improving, and more advanced technologies are being used for protecting mission critical applications. However, we continue to struggle with long recovery time and recovery points, and confidence has fallen off slightly. Barriers and roadblocks include IT and business miscommunication and mismatched expectations of capabilities, while increased risk profiles and costs of downtime continue to fuel our need to drive DR programs forward.

Disaster Recovery Planning, Maintenance, And Testing Makes Incremental Improvements

Most experts will agree that running tests and exercises are the best way to ensure preparedness. In the past, survey results have returned disappointing results around organizations’ testing regimens. However, this iteration reveals good news: 39 percent of companies are now running a full test once per year with another 31 percent running a full test twice per year or more frequently (see Figure 1). Additionally, one of the areas that plans...
will often fail is when they are not up to 

date. With the rapid rate of business and IT 
change today, it’s critical that companies 
update their plans continuously, something 
that 35 percent of respondents now do.

**Companies Look To Cloud 
And Colocation For DR Sites, 
Separation Is Moderate**

DR in the cloud has been a hot topic 
that has garnered a significant amount 
of attention during the past few years. 
However, to date, adoption has been low, 
less than 10 percent. However, according 
to the latest survey, 15 percent of compa-
nies are now using the cloud as a recovery 
site. Use of colocation for recovery sites 
is significantly higher as well, at 38 per-
cent. However, the most common method 
of sourcing recovery sites is still in-house, 
although 20 percent responded that they 
use an equal mix of in-house and out-
sourced models (see Figure 2).

Site separation has also been a topic 
of hot discussion, especially after Hurricane 
Sandy proved to many organizations that 
the separation between their sites was 
not sufficient. According to the latest 
survey, average distance between sites is 
approximately 600 miles. While there is 
no absolute right answer for how far apart 
recovery sites should be, the rule of thumb 
is that they should not be subject to the 
majority of the same risks.

**Firms Turn To Advanced 
Technologies To Protect 
Growing Critical Systems**

According to the 2010 Forrester/DRJ 
survey, the top risk that BC/DR man-
gers face today is the increased reliance on 
technology. This fact is further illustrated 
by the fact that more than one third of our 
systems are now considered mission criti-
cal. Compared to past survey results, the 
number of non-critical systems continue 
to shrink.

To address increasing business expec-
tations and shrinking RTOs and RPOs, 
more firms are turning to technologies 
such as replication for mission critical sys-
tems, which more than half of companies 
now use, compared to 35 percent in 2010. 
Legacy technologies like tape still play 
an important role in continuity plans and 
remain the most popular method for pro-
tecting non-critical systems.
One of the biggest challenges in DR today is the pressure between business expectations for recovery objectives and IT's ability to deliver on them. In fact, 35 percent of companies responded that mismatched business expectations with IT capabilities was one of the biggest challenge they faced when recovering from their most recent disaster or major business disruption. While the business is demanding shorter and shorter recovery times and points, actual recovery times are actually lengthening — in 2013 median actual recovery times were eight hours, up from three hours in 2010. This trend of increasing actual recovery times is not new, it can be traced back even to the 2007 survey. For example, in 2007, a notable 30 percent of companies reported they were able to recover from their most recent disruption in under an hour. In 2010, which shrunk to 13 percent, and today only 2 percent of companies said they were able to recover in less than one hour from their most recent disruption (see Figure 4).

Recovery points, on the other hand, stayed flat to slightly down, most likely to increased usage of replication, both synchronous and asynchronous. In 2013, the median recovery point actual was 0, the same as it was in 2010. Like the trend of increasing recovery time actuals, the trend in decreasing data loss can be traced through from 2007. For example, in 2007, 19 percent of companies said they sustained between 1-5 hours of data loss. This grew slightly in 2010 to 21 percent and then to 27 percent in 2013, while those who could recover with less than one hour of data loss remained effectively flat.

More Disasters Are Declared, Power Failures Remain The Top Culprit

For those who think “it won’t happen to me,” think again. According to the latest survey, one in three companies have declared a disaster in the past five years. In 2010, the statistic was one in five. And overall, only 31 percent of firms say they have never declared a disaster, down from 36 percent in 2010.

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**Recovery Time Actuals Lengthen, And Recovery Point Actuals Stay Flat**

**Figure 4 Recovery Times And Data Loss From Disasters Or Major Disruptions**

<table>
<thead>
<tr>
<th>Rank 1</th>
<th>Rank 2</th>
<th>Rank 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mismatched business expectations with IT capabilities</td>
<td>14%</td>
<td>12%</td>
</tr>
<tr>
<td>Not knowing when to “decline” a disaster and execute a recovery</td>
<td>12%</td>
<td>8%</td>
</tr>
<tr>
<td>Lack of communication between the IT and the business</td>
<td>4%</td>
<td>9%</td>
</tr>
<tr>
<td>Plans not up-to-date with current environment</td>
<td>8%</td>
<td>5%</td>
</tr>
<tr>
<td>Insufficient planning for the specific scenario</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Insufficient testing and overall preparedness</td>
<td>9%</td>
<td>9%</td>
</tr>
<tr>
<td>Service provider did not meet expectations</td>
<td>9%</td>
<td>12%</td>
</tr>
<tr>
<td>Lack of communication between recovery staff</td>
<td>12%</td>
<td>10%</td>
</tr>
<tr>
<td>Lack of communication between the IT and the business</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Staff not available to execute recovery plans</td>
<td>3%</td>
<td>8%</td>
</tr>
<tr>
<td>Lack of staff</td>
<td>5%</td>
<td>10%</td>
</tr>
<tr>
<td>Plans not useful for actual recovery process</td>
<td>1%</td>
<td>5%</td>
</tr>
<tr>
<td>Limited budget/resources</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Service provider was unresponsive</td>
<td>5%</td>
<td>5%</td>
</tr>
</tbody>
</table>

Source: Forrester Disaster Recovery Journal November 2013 Global Disaster Recovery Preparedness Online Survey

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**Figure 4 Recovery Times And Data Loss From Disasters Or Major Disruptions**

| 30+ hours | 20% |
| 2-5 hours | 17% |
| 1-2 hours | 15% |
| 1 hour or less | 12% |

Source: Forrester Disaster Recovery Journal November 2013 Global Disaster Recovery Preparedness Online Survey

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**Figure 4 Recovery Times And Data Loss From Disasters Or Major Disruptions**

| 10+ hours | 12% |
| 6-10 hours | 11% |
| 1-5 hours | 4% |
| Less than 1 hour | 2% |

Source: Forrester Disaster Recovery Journal November 2013 Global Disaster Recovery Preparedness Online Survey

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**Figure 4 Recovery Times And Data Loss From Disasters Or Major Disruptions**

| 10+ hours | 12% |
| 6-10 hours | 5% |
| 5-9 hours | 6% |
| Less than 1 hour | 3% |

Source: Forrester Disaster Recovery Journal November 2013 Global Disaster Recovery Preparedness Online Survey
While it may be tempting to blame some of the large scale disasters that have occurred in the past few years on natural disasters such as Hurricane Sandy or the Japanese Tsunami, it’s still the mundane events such as power failures, IT failures, and human error, that top the list of causes (see Figure 5).

Most organizations still struggle to understand their cost of downtime—57 percent said their organizations had not calculated this, and another 30 percent said it had been calculated, but they didn’t know what it was. Those who did know their hourly cost of downtime gave answers in the range of $10,000 to $3.5 million. One area organizations did understand, however, was the impact of downtime on their organization. The biggest impact to organizations was loss of productivity, followed by lost business opportunities and drop in employee morale.

Confidence In Capabilities Erodes, Regulatory Compliance Drives Future Improvements

Given the longer recovery times, more critical systems, and increased complexity, it’s no surprise that confidence in our DR preparedness has fallen during the past few years. Today, our confidence in our ability to meet recovery objectives is significantly lower than it was in 2010, with 16 percent of respondents in 2013 saying they felt very prepared down from 23 percent in 2010, but this most likely represents a more balanced and realistic viewpoint (see Figure 6).

Nevertheless, firms overall agree that there is room for improvement, and 40 percent say improving DR capabilities is a critical priority. The drivers behind this motivation, however, have changed significantly since 2010. Regulatory and legal drivers, which ranked fifth overall in drivers in 2010, are now top of the list. Other top drivers include many of the usual suspects, including fiduciary responsibility to stakeholders and increased overall risk.