

I/O Information

Availability, RTO and RPO Definitions

Business continuance and disaster recovery corporate objectives must be based on the following criteria:

Availability is defined with five classes as:

- mission critical where the server or data must be available 99.999% of the time - the "five-nines" level of protection equates to 5 minutes downtime per year
- business vital is 99.99% availability = 53 minutes downtime per year
- mission important is 99.9% or 9 hours per year
- data important is 99% or 3.6 days per year
- data not important is 90% or 36 days per year

Recovery Time Objective (RTO) is defined as the maximum time allowable for recovering data:

- mission critical data the RTO (taken as .00001 of the total year) is 1.5 minutes
- business vital data the RTO is 15 minutes
- mission important data the RTO is two hours
- data important for productivity the RTO is one day
- data not important to operation the RTO is one week

Recovery Point Objective (RPO) is how much work in progress that can be lost:

- Tier 0 - No off-site data
- Tier 1 - Data backup with no Hot Site
- Tier 2 - Data backup with a Hot Site
- Tier 3 - Electronic vaulting
- Tier 4 - Point-in-time copies
- Tier 5 - Transaction integrity
- Tier 6 - Zero or little data loss
- Tier 7 - Highly automated, business-integrated solution

Criteria	Availability	Downtime/year	Recovery time
Mission Critical	99.999%	5 minutes	1.5 minutes
Business Vital	99.99%	53 minutes	15 minutes
Mission Important	99.9%	9 hours	2 hours

Important	99%	3.6 days	1 day
Not Important	90%	36 days	1 week

[Table and Definitions in PDF format](#)

[Home](#) | [About Us](#) | [Members Login](#) | [Search Engines](#) | [Contact Us](#) | [Newsletter](#)

Copyright © 2001-2006 IO-Info.com All rights reserved