

## Availability Management on a Budget

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Which familiar ITIL process has virtually no added costs, yet can realize visible improvements in availability in as little as a few weeks?

You guessed it, the Service Design Phase's Availability Management!

Here's the secret -- to "stay up," you have to know why you "went down." Put another way, to improve **availability**, you have to measure, identify and address **un-availability**.

Following is a 6-step plan to examine infrastructure (products) and organization (people and process) for un-availability identify the prime issue(s), and develop a solution to increase availability:

1. **Start with the "Incident Lifecycle."** Examine the time spent on Incident detection, diagnosis, repair, recovery and restoration. Document where un-availability comes from using metrics for Recoverability (Mean Time To Repair), Reliability (Mean Time Between Failures) and Serviceability (agreed uptime minus downtime) for external providers. This is a baseline to document improvement.
2. **Perform a Service Outage Analysis (SOA).** Working with Problem Management and Customers, examine past outages and identify responsible IT assets (products, people or process). Create a Pareto chart; graph paper will do nicely. A majority of un-availability usually results from a minority of assets. See [Service Outage Analysis in 7 Steps](#) for more on SOA.
3. **Create Component Failure Impact Assessment (CFIA) tables.** Driven by the SOA, CFIA shows the scope of impact and locates Single Points of Failure and other flaws. All it takes is a spreadsheet, or paper and pen. CFIA works for all IT assets – people and processes (organization) as well as products (infrastructure). See [3 Steps to Success with CFIA](#) DITY for more on CFIA.
4. **Develop Fault Tree Analysis (FTA) diagrams.** Both CFIA and FTA clarify potential flaws. FTA uses a logical model that shows how a failure can snowball into a major outage. Like CFIA, FTA may also be done with paper and pen. See [Fault Tree Analysis Made Easy](#) DITY for more on FTA.
5. **Prioritize using CRAMM.** CRAMM classifies the risk faced by an asset (threats) due to vulnerabilities in infrastructure and organization, identified in this case by CFIA and FTA. A paper or spreadsheet-based solution works just fine. See [10 Steps to Do It Yourself CRAMM](#) DITY for more on CRAMM.
6. **Establish a Technical Observation Post (TOP).** A TOP is a team of Subject Matter Experts, Customers and suppliers assembled to brainstorm on the issues identified as responsible for un-availability and classified as most severe – the #1 issue. The result is a Request for Change (RFC) to improve availability. See [7 Steps to the TOP](#) DITY for more on the TOP.

### SUMMARY

These six steps in the order presented deliver an understanding of un-availability in a matter of days – at low to no additional cost. Benefits of the Changes proposed by the TOP step could begin to appear in your "Incident Lifecycle" metrics within a few weeks – or even days.

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