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## OVERVIEW

The backbone of our DataBP Continuous Data Protection Solution includes a complex environment of servers and NAS appliances running an enterprise version of CommVault Simpana. The recovery strategy for this environment incorporates redundant servers at the CU\*Answers state-of-the-art High Availability datacenter in Muskegon, MI. At the heart of this environment is a redundant pair of CommVault CommServe units in an active/passive (master/slave) arrangement.

The critical roles these CommVault CommServe units play include:

- Command and control center
- Responsible for all administrative functions
- Coordinate activity between nodes, agents and media storage devices
- Maintains database that stores all of the information pertinent to the CommVault environment
- Job scheduler, job manager, job history/reports, user security,
- Ensure successful backup and recovery of nodes

On April 11, 2013, between 3:00 AM and 8:00 AM, a test was performed to confirm our ability and procedures to failover from the production CommServe unit in Kentwood to the DR CommServe unit in Muskegon without losing any CommVault application capabilities. This is a significant test due to the dependence by the CommVault environment on the CommServe unit.

This test was performed in the production environment with measures taken to minimize any interruptions to scheduled data archiving jobs and return to full production by 8:00 AM.

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## GAP ANALYSIS

The remainder of this report highlights the issues noted and lessons learned as well as recommendations for changes to existing operations and/or future testing.

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## SUCCESSSES OBSERVED

1. During the failover test, the DR CommServe unit was able to communicate to all internal and external media agents.
2. The test included the backup and recovery of Windows and Linux agent-based nodes.
3. The DR CommServe unit was able to schedule and perform backup and restore jobs from media agents to most nodes (exceptions were those nodes that are currently accessed through a local media agent that functions as a proxy).
4. During the test we noticed no increase in backup/recovery times for jobs scheduled from DR CommServe.

## ISSUES NOTED

1. Network communications issue with nodes accessed through a local media agent that functions as a proxy.
2. Unable to connect directly to CommCell (console) from workstation on production network. Required remote access to CommServe unit).

## FUTURE RECOMMENDATIONS

1. Resolve issues noted above.
2. Expand test to include additional nodes (SQL, VMware, etc.).
3. Redirect backup to alternate media agent.