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Solutions That Connect

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## Microsoft Data Protection Manager 2010

**Opportunity:** Regional banking customer needed to implement a new backup solution for their Windows server environment that would provide a full backup within their backup time window. The solutions also needed to be cost-effective and include an offsite storage solution. The banking customer, serving northwest Indiana, has several branches that allow replicated data over their existing Frame Relay network.

**Technology:** Microsoft Data Protection Manager (DPM) 2010 R2 and HP ML350 Server

**Project:** Backup protection design, including backup of Virtual Host, Exchange, and SQL

**Solution:** Reduced the client's costs by limiting the number of agents needed to successfully backup the environment. Since Hyper-V was used for the Virtual Infrastructure; only one agent was needed for each host to backup all VMs on that host. This allowed Microsoft native Volume Shadow Copy Services to backup all servers online and provide Bare-Metal recovery well within the backup window.

Offsite storage was accomplished by connecting a fast HP StorageWorks Ultrium 960 tape drive to the DPM Server. This backup does not directly access the protected servers; but rather the DPM Server itself. When the DPM Server finishes the normal Disk2Disk backup, DPM will then start a job for the attached tape drive and the data will be pulled from the DPM Disk2Disk backup. This reduces network bandwidth needed for lengthy backups. It also allows backups to happen during normal business hours.

This solution also allows future offsite storage capability to be provided by a second DPM Server at a branch location. The two DPM Servers will communicate over a secure channel and provide bandwidth throttling as needed. Like Disk2Tape scenario above, the second DPM Server will not communicate with the protected servers but rather pull the data from DPM Server at the primary location.

**Benefits:** Full backups are now completing within the allotted backup window while providing a granular restore for folders and files and allowing for a backup every 15 minutes. This solution provides offsite storage via attached tape drive and remote site capabilities. This has also allowed the banking customer to design a comprehensive DR plan that allows for the least amount of data loss.