

## RMLIB006 Server Purchase – Lucia Khipple & Mike Mraz, I.T. Department

**Background:** In November of 2011, we combined our two data (RMLIB002 & RMLIB003) servers of all library documents, printers & emails into one server because of newer technology available that made one large server much easier to deal with than having two separate but much smaller servers. Back then we had about 396 GB worth of data on the two servers and they were getting quite full. We were also running on daily physical tape backups which was very costly and presents its own challenges.

In 2011, when our current RMLIB004 Server was purchased, several things were important: the ability to easily expand its Hard Drive size (we started with 584 GB and are currently using 825 GB), a newer technology to backup the server (we do hourly snapshots of everything on our server, which has been an incredible tool when documents were accidentally deleted or became corrupted) and processing speed (faster document retrieval, which gets better when newer technology is made available).

The RMLIB004 Server has worked great over the years, we even kept it a bit longer because there was no rush to replace it. Recently reboots and operating system updates have caused some operating issues but were easy to fix. We are also running out of Hard Drive space again and the current Hard Drives are much more challenging to locate and can be quite expensive. The RMLIB004 Server runs on Windows Server 2008R2 OS, Microsoft will be officially ending its software & security updates support in January of 2020.

In late 2019, a major software upgrade will be done changing all library PCs from the Windows 7 OS platform to the Windows 10 OS platform, this massive change will be required because Microsoft is ending support for its Windows 7 OS. The new RMLIB006 Server will need to be in place well before all the PCs are updated to Windows 10. Performing 2 massive changes (new server & new PC OS) in one year is very challenging, time-consuming and costly, so we would prefer to get the new server installed in 2018.

**Cost:** The new RMLIB006 Server should cost between \$8,300 and \$9,000. The new Server will be running on Windows Server 2016 OS and will have 2 - 3 TB of Hard Drive space, we will continue using our present backup method of hourly snapshots of everything on the server, and the processor speed will be increased as well. We had 3 years of support included with the last server and purchased HP Support Care each year after the warranty support ended which costs a total of \$2,290, we went with a 5 year support warranty for the new server.

We have obtained 3 estimates for the new Server:

- HP Insight was \$10,600
- PCM-G was \$8,500
- Pace Systems was \$8,388.

**Recommendation:** This is a project that is necessary for our daily operations at the Library. It would be prudent to purchase this now before the current Server experiences larger problems.



Current RMLIB004 Server