

# Technology Report

May, 2022

## Grants

ECF: A total of 59 Chromebooks were requested for 8 libraries. 71 Mobile hotspots and data were requested for 12 libraries.

TEACH Infrastructure 2020/2021: Requests for 2020/21 reimbursements have been submitted and approved by TEACH.

## SCLS O365 email update

In April SCLS staff enabled [Modern Authentication for O365](#) users. We are continuing to follow up with users about the handful of O365 accounts that are still logging in using Basic Authentication.

## Drupal 9 migration

Live Drupal 9 sites (May): BER

In-progress: PLA, AMH, POR, MCF, ROM

When we drafted the migration schedule initially, we were up against the tight deadline of Drupal 7 support ending in November 2022. With the Drupal 7 support deadline having been extended and after reviewing our migration progress thus far, we'd like to adjust the schedule to 1 library a week (or possibly 2 libraries every 3 weeks) and extend our migration project into 2023. Kerri will be contacting some of the libraries that are already scheduled for August to talk about rescheduling.

## SCLS Network

**Network Security Project:** Site migration expected completion this week (5/31 to 6/4).

## Content Filtering Solution

A formal project plan has been developed to cover the details of deploying the Untangle appliance. Expected completion for all site migrations set for Fall 2022. The Untangle appliance is connected to the SCLS network and online. Initial setup and configuration will continue for the next two weeks with process development to follow.

## Data Services

**Local Holds Work Group:** The Work Group kicked off in May and, throughout multiple meetings, developed ideas for data dimensions that could gauge the impact of a potential local holds pilot project later in 2022. The Work Group found that, in terms of ILS data and reports currently available, monitoring several measures during the project term and comparing them to longer-term trends in historical data might help identify any significant anomalies. Such dimensions include: holds filled

latency, library loaned/borrowed ratios, percentage of checkouts from the library's collection, and overall circulation.

**Dane County patron mapping:** As part of a data visualization project requested by the Madison Public Library Data Team, I spent some time working with patron address data. I developed a process to anonymize and reformat the data, incorporating automatic and manual processing components. I then used an R script (modified from the original version written by Nathan Shipley of the City of Madison Data Team) to geocode the addresses and match them to census tracts, block groups, and blocks. The results allowed me to aggregate the data at various levels to preserve patron privacy. Subsequent steps will include mapping the data and integrating demographic information into an interactive visualization.

**Database usage dashboards:** This month, I continued to work on changes to the workflow the Scripting and Reports Team uses to update the database usage dashboards every month. These changes were made necessary by the Google Sheets data connector deprecation in the latest version of the Tableau data visualization software. Using a single database as a test case, I have modified the data preparation flows created in Tableau Prep to produce a proof-of-concept script that should be widely applicable. Further testing and refinement will be necessary before full deployment.

- Tim Drexler

## Scripting and Reports Team

**Upgrade planning:** The Scripting and Reports Team discussed preparations for two upcoming upgrades. The first involves upgrades to FreeBSD servers, including ILS-related servers and the webserver. The Team will schedule the upgrades at times that minimize downtime and prevent service disruptions and will provide advance notice.

The second upgrade project concerns updating the version of Python installed on the SCLS Scripts server. The Team is considering alternatives that would allow extant scripts to continue running with older installations of Python and related packages yet provide the capability to develop new scripts with more current versions. Potential options include running scripts in isolation using Python virtual environments or compiling scripts into self-contained executable files for deployment to the server.

- Tim Drexler

## Endpoint Security Replacement

We have selected a product to replace Kaspersky. We have until July 4<sup>th</sup> to remove Kaspersky and install the new product. Email will go out to SCLS Tech contacts when we are ready to start installing the new software.

## MyPC

It has been awhile since our vendor, TBS, has upgraded our MyPC servers. We have started to plan an upgrade. After TBS upgrades our servers, we will need to upgrade the MyPC and PaperCut clients on public PCs and the TBS Guest Pass Portal on staff devices.

## SolarWinds Inventory

With the new help desk software comes new inventory software as well. I have been scanning all PCs on our network and getting them up-to-date as well as cleaning up old records of PCs no longer on the network. I believe this will make device counts in the future much easier. I continue to run the workstation status reports every month; while they look different than the old ones they still have the same information. Overall I think the new software is working well for us.

—Emily Peterson