

# Bookmark Networking Guide

March 2024

See the Setup and Networking Guide manual for more detail.

## **Standard Network Configuration**

Bookmark is installed on one PC. The folder is shared. Other Windows devices – desktops, laptops, tablets – can access Bookmark through the network as if the shared folder is a drive.

No software is installed on workstations or laptops. Only shortcuts are set up.

Note: Bookmark uses the SQLite database engine. The engine is embedded in the Bookmark executables. It does all processing on workstations. A server or host is seen as a drive. No processing is made on the server. Due to large traffic volumes, high connection speed between the server and workstation is very important.

## **Shifting Bookmark from one PC to another**

This can be done if Bookmark is used as a stand-alone application or changing hosts.

Copy the Bookmark folder and all of its contents to the other computer. Installing fresh can result in loss of backups and other data such as book cover images. Nothing is in the registry unless it has been set to auto-start. (See below.)

## **Internet**

Whitelist the Bookmark URL so it can download and upload data to the Bookmark webserver.

<https://bookmark.central.sa.edu.au> and <http://bookmark.central.sa.edu.au>

If a proxy is required, it can be entered into Bookmark in Controls > Settings > System tab.

Other addresses may also need whitelisting if Z-cataloguing and/or the SCIS API are used. See the relevant fact sheets for details.

## Host / Server Setup

- Server or workstation. Bookmark may work faster if hosted on a workstation instead of a busy server. There can be many bottlenecks to performance.
- Share the Bookmark folder.
- A workstation can act as a host for up to 20 concurrent connections.
- Use C:\Bookmark on the host.  
Do not put Bookmark inside Program Files!  
Do not install to the Desktop or Users folder.  
OneDrive and Share Point are useful for backups but not good for sharing Bookmark unless only a single user is to be used at a time.
- Recommended by Microsoft for databases: disable write behind caching on workstations.

## Workstations

- A mapped drive letter is preferred to a UNC address. Drive L for "library" is suggested. *Do not map to drives A or B as the BIOS thinks they are floppy drives even if these physical drives are not present.*
- Windows 10 & 11 – all SMB1 checkboxes should be ticked in Windows Features.
- Wifi is much slower than a cable connection. Modern wifi speed is reasonable but older wifi can be poor.
- Server speed has little effect on network communication speed. Other bottlenecks can create slowness.
- All processing is done on workstations, not the server or host. Network communication speed controls how fast Bookmark works.
- The SendTo-Desktop method of creating a shortcut is preferred as drag-and-drop usually creates a UNC address and may not fill out icon properties fully.
- *Bm.exe* Main Menu used by library staff only.
- *Bmsearch.exe* Search the catalogue only. Can be multiple PC's. Webopac or CPAC are browser-based alternatives.
- *Bmcirc.exe* can be set up on workstations for only borrowing and returning. More than one can be set up.

## **User Permissions**

- Library staff require Modify or Full Control permission to use the *Main Menu* (Bm.exe). Bookmark creates and deletes files on-the-fly behind the scenes. The Main Menu part will fail and generate errors with Read-only or Read/Write.
- *Circulation* can work with either Modify level (preferred) or Read/Write (Change) level. Modify is preferred. It will not work with the default Read-only as data has to be saved.
- *Search* can work with any permission level.

## **Webopac**

Webopac is a browser-based search component. Used from a browser using a URL on any device that can access the network. Not required but can replace Windows Search. See the separate Webopac setup guide for instructions.

## **CPAC**

CPAC is "cloud based" and allows searching the catalogue outside the network's firewall. Library staff can work with the Bookmark help desk to set this up. Catalogue search only. No borrower data. No IT support is required apart from the Bookmark URL being whitelisted and a proxy is set if needed so data can be uploaded. See above.

## **Auto-Start**

Bookmark's main menu, Circulation only, and Search only can be set to automatically open when a user logs in. This can be done via the Start-up folder or the registry. See the Fact Sheet "Automtically Open Bookmark on start up" for technical details on how to set this up.