## Objective and Benefits:

RHPL chose to transition our public catalogs from Windows 11 and multiple third-party products to Google Chrome OS Enterprise to simplify deployment and management. By leveraging Vega Discover Homepage, Google Kiosk, and Google Guest Management, we can streamline both setup and maintenance.

Previously, we used a combination of Windows 11 Professional, Kaseya VSA, Faronics Deep Freeze Cloud, and Public Web Browser to ensure patrons had a secure browsing session that was wiped clean after use. However, maintaining up-to-date sessions on Windows posed challenges, as security updates were only applied weekly, leading to potential vulnerabilities when devices weren't fully patched.

By switching to Google Chrome OS, RHPL ensures that devices stay up-to-date automatically, often receiving new updates multiple times a day. This move also reduces costs by eliminating the need for several third-party products, as Chrome OS Enterprise provides these features at a low, one-time cost per device for enrollment.

Our development of Vega Discover Kids Catalog within Google Kiosks allows us to control how the patron experiences the catalog without requiring lockdown (restoration) software removing another platform for IT to maintain.
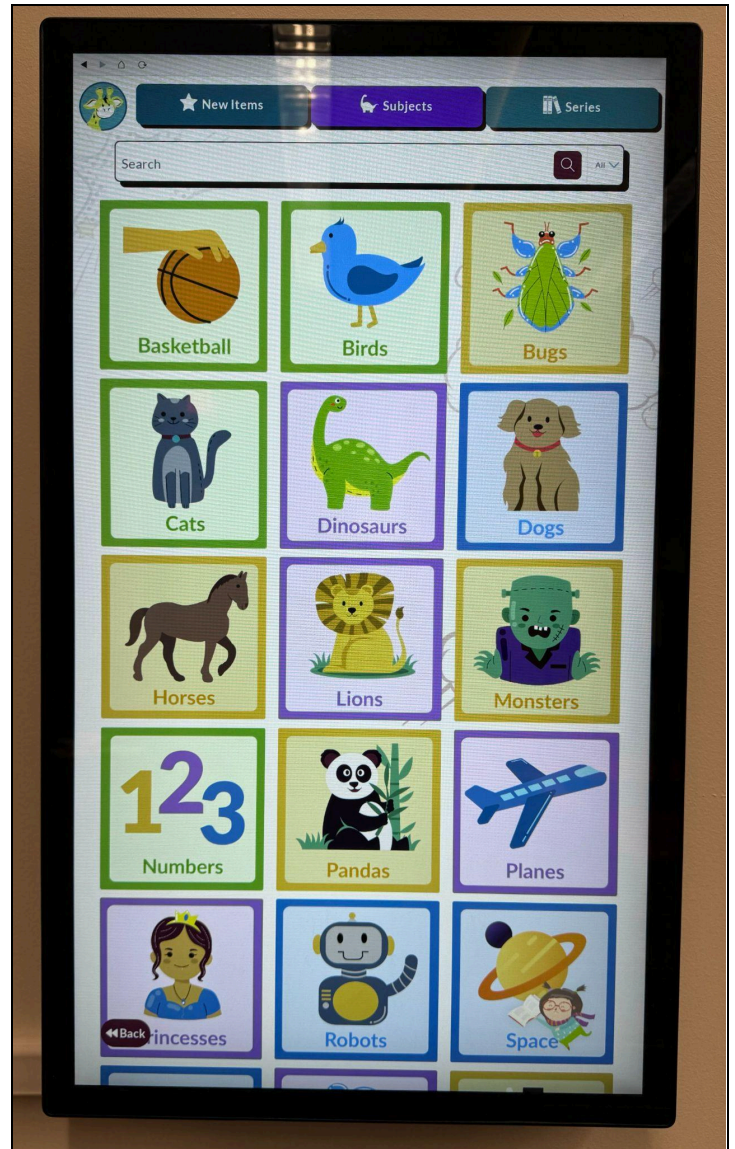
[Link to Video](#)

Limitations of Vega Discover Homepages:

The Vega Homepage custom pills' 'Use URL or showcase?' feature opens a new tab in all browsers, rather than staying within the same window. This poses a limitation for Google Kiosk, which requires navigation within the same window. As a workaround, we implemented custom JavaScript [1] to ensure all clicks remain in the same window until Clarivate provides an option to enable or disable new tab links.

Vega Homepage prompts users to accept cookies, which isn't an issue for the average user but poses a problem for devices that wipe their data after each session. As a result, we need to block the cookie banner [2] to prevent the catalogs and kiosks from prompting users to accept cookies after every session. This is particularly troublesome in our Youth area, where younger users may not understand what they are agreeing to when they press 'accept'.

We decided to hide our login and bookshelf [3] on the kiosks since they were designed to be a visual incentive versus checkout experience for our young patrons.

Vega Discover Homepage Settings:
The level of customization RHPL is leveraging requires Vega Discover Premium, as much of our custom code is injected into both the header and footer.

When deploying the Kids' Catalog experience, we enable the following settings: Children - Audience Theme, grid layouts, content limited by specific collections, and, of course, customized homepages for each landing page.

RHPL builds distinct homepage sites for each of our landing pages, rather than using a single catalog experience for all. For example, the Kids' Catalog features different segments like series grids, subjects represented by imagery, and a general new items page. We plan to apply this same deployment strategy for our Books on Board (Bookmobiles), Innovative Item Collection (Library of Things), and Local History Collection.

RHPL Kids' Catalog - Kiosk (kiosk)

Experience Settings

Audience Theme
- ◯ General Public
- ⦿ Children (Easy to read font, more graphics, different colors, fewer filters)

Global Setting
Off ⬤ On

Search Result Display Options
- ◯ Disable grid layout
- ⦿ Enable grid layout
- ◯ Enable grid layout and make it the default view

SITE NAME ^	URL ⌄
Books on Board	bob-rhpl.na3.iiivega.com
Innovative Item Collection	iic-rhpl.na3.iiivega.com
Kids' Catalog - Series (Theme 1)	kcseries-rhpl.na3.iiivega.com
Kids' Catalog - Series Kiosk	mbkser-rhpl.na3.iiivega.com
Kids' Catalog - Subject (Theme 2)	kcsubj-rhpl.na3.iiivega.com
Kids' Catalog - Subject Kiosk	mbksub-rhpl.na3.iiivega.com
RHPL Kids' Catalog	kids-rhpl.na3.iiivega.com
RHPL Kids' Catalog - Kiosk	mbkids-rhpl.na3.iiivega.com
Rochester Hills Public Library	mb-rhpl.na3.iiivega.com

By Collection   By Shelf Location

Limit By Collection
Configure and filter the content displayed on your site

[Clear selections]

🔍 Search

- ☐ Adult Biography
- ☐ Adult Mystery
- ☑ Youth School Supply Kit
- ☐ Adult Video Game
- ☑ Youth Board Game

Selected Collections
- ☑ Youth School Supply Kit
- ☑ Youth Board Game
- ☑ Youth Findaway
- ☑ Youth Biography
- ☑ Youth Board Book
- ☑ Youth DVD
- ☑ Youth Fiction
- ☑ Youth Graphic Novel
- ☑ Youth Illustrated Fiction

Google Kiosks Deployment:

The Rochester Hills Public Library (RHPL) chose Google Chrome OS Kiosks to manage our Children's catalog touch screen devices for several key reasons. First, we developed a custom Google Kiosk experience through the Google Developer platform as a stand-alone application tailored to our needs. Our primary goal was to create a secure, closed-off environment that would guide young patrons through the catalog while preventing them from navigating to other sites or programs. This ensures a safe and focused browsing experience, particularly for children who may not have the ability to recognize or avoid inappropriate content.

The process of building the application was straightforward. RHPL became part of the Google developer community at a minimal cost ($5) to license a user on the platform. The Google Kiosk system provided a basic template, which we easily modified to launch our Kids' Catalog. Once adjustments were made, we uploaded the application for review by Google, and after a brief 24-hour review process, we were able to deploy it.

The simplicity of deployment was another major factor in our decision. By entering the app's ID into our Google Admin Console and selecting the appropriate Organization Unit, we could set the Kiosk to auto-launch at
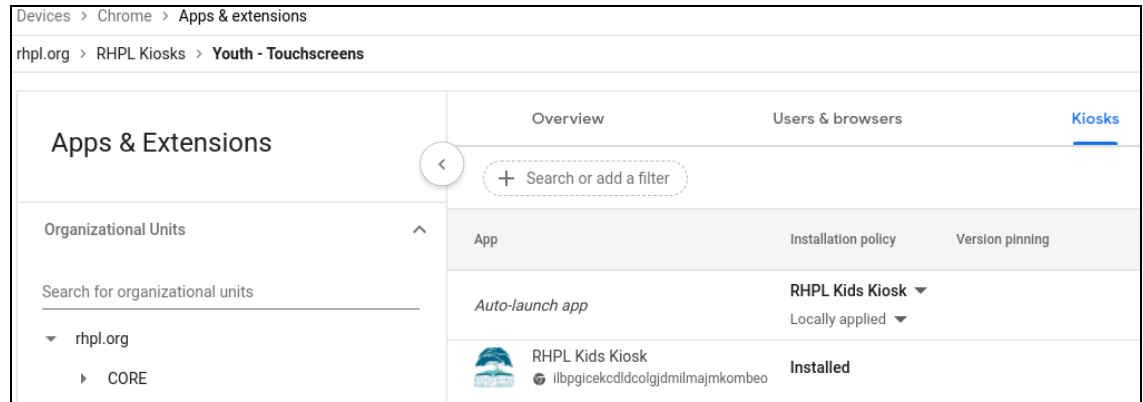
startup. This made it easy to maintain, and the additional configuration options—such as power management and idle settings—allowed us to optimize the user experience. Deployment took seconds for each enrolled device, and the solution was not limited to any specific hardware, giving us the flexibility to work across various devices without complications.

In comparison to traditional Windows-based systems, the Google Chrome OS Kiosks offered a cost-effective and highly manageable solution that simplified updates, ensured security, and provided a user-friendly interface designed specifically for our youngest patrons.

[1] <u>Custom JavaScript for a single viewing Window:</u>

```
//Add more subjects here. Goes by file name (case sensitive)
function addClickListenerToImage() {
    const imgnewkidsbooksoldteal = document.querySelector('div[aria-label*="New"]');
    const imgkidsdvdnewfont = document.querySelector('img[src*="kidsdvdnewfont"]');
    const imgnewpicturebooksoldtealfont = document.querySelector('img[src*="newpicturebook"]');
    const appBookshelf = document.querySelector('div[data-automation-id*="bookshelf-container"]');

    if (imgnewkidsbooksoldteal) {
        imgnewkidsbooksoldteal.addEventListener('click', function() {
            // Change the window location to the new URL
            window.location.href =
'https://mbkids-rhpl.na3.iiivega.com/search?query=*&searchType=everything&pageSize=20&materialTypeIds=1&catalogDate=quarter&pageNum=0&intendedAudienceIds=preschool,pre-adolescent,primary,juvenile&locationIds=3&viewType=grid';
        });
    }
        if (imgkidsdvdnewfont) {
        imgkidsdvdnewfont.addEventListener('click', function() {
            // Change the window location to the new URL
            window.location.href =
'https://mbkids-rhpl.na3.iiivega.com/search?query=*&searchType=everything&pageSize=20&materialTypeIds=33,40&catalogDate=quarter&pageNum=0&viewType=grid';
        });
    }
        if (imgnewpicturebooksoldtealfont) {
        imgnewpicturebooksoldtealfont.addEventListener('click', function() {
            // Change the window location to the new URL
            window.location.href =
'https://mbkids-rhpl.na3.iiivega.com/search?query=*&searchType=everything&pageSize=20&catalogDate=quarter&pageNum=0&materialTypeIds=1&conceptIds=c38047a3-7d46-11ed-ab78-c1f69f91c7c2&viewType=grid';
        });
    }
    if (appBookshelf) {
        appBookshelf.style = 'display: none !important';
```

```
        }
}

const observer = new MutationObserver(function(mutationsList) {
    // Check for added nodes
    for (const mutation of mutationsList) {
        if (mutation.type === 'childList') {
            addClickListenerToImage();
        }
    }
});

// Start observing the document body for changes
observer.observe(document.body, { childList: true, subtree: true });

// Also add an initial check in case the image is already present
addClickListenerToImage();
</script>
```

(2) Block the cookie banner on Vega Discover:

```css
//REMOVE COOKIE BANNER
body [id*='onetrust'] {
    display: none;
}
body [class*='onetrust'] {
    display: none;
}
.ot-sdk-container {
    display: none !important;
}
```

(3) Hide our bookshelf:

```css
//REMOVE BOOKSHELF
app-root > app-bookshelf {
display: none !important;
height: 0px !important;
visibility: invisible;
width: 0px !important;
}
```