



Connecticut's Trusted Internet Partner



---

## Network Assessment

**Prepared for:**

New Haven Free Public Library

**Delivered:**

January 2023

**Prepared by:**

Jonathan Law  
Matthew Ayotte  
Ryan DelMastro

**This document is strictly private, confidential, and personal to its recipients and should not be copied, distributed, or reproduced in whole or in part, nor passed to any third party.**

## 8.0 Summary of Recommendations

### 1.10 Network Experience Recommendations

We recommend properly placing and adding access points for better wireless coverage. We also recommend considering integration into eduroam via CEN. eduroam allows guests from learning institutions to securely connect to the Internet at any participating location via their school credentials. Libraries that integrate with eduroam gain a benefit for visiting students, faculty, or staff while also getting enhanced security and valuable reporting on wireless network utilization. For more information, please visit <https://ctedunet.net/eduroam/>.

### 2.2 Physical and Environmental Recommendations

We recommend adding cable management to all 4 closets.

### 3.3 Wired Network Recommendations

We recommend adding stacking cables for the Meraki stacks. We also recommend replacing the firewall with a SonicWall to support outbound NAT for library branch segmentation and secure outbound for guest wireless.

### 4.3 Wireless Network Recommendations

We recommend adding 8 Meraki access points and upgrading the existing 12.

### 5.3 Logical Configuration Recommendations

We recommend adding isolated cameras, IoT, and HVAC networks.

### 6.3 Out-of-Scope Network Device Recommendations

We recommend isolating the cameras, IoT, and HVAC systems into their own isolated subnets.

## 9.0 Bill of Materials

Item	Part #	Quantity	Price ea.	Labor	Price Total	Description
Cat6 Drops for Wireless APs		8	\$500		\$4,000	
MR44 APs		20	\$1,500	\$1,500	\$31,500	MR44 APs with a 5-year license
Meraki Stacking Cables	MA-CBL-TA-3M	10	\$150		\$1,500	
SonicWall NSa4700 HA Pair		1	\$35,000	\$3,750	\$38,750	With 5-year Total Secure – Advanced Edition and HA appliance
Project Fee				\$2,500	\$2,500	
<b>TOTAL</b>					<b>\$78,250</b>	



## CT State Library

*Preserving the Past. Informing the Future.*

### Fiber to the Library Grant Program 2023 Internal Connections, Step 2 Application for Equipment/Installation

Library name: New Haven Free Public Library

Library address: 133 Elm St.

Director: Maureen Sullivan

Director phone number: 203-946-8124

Director e-mail address: msullivan@nhfpl.org

Name and address of agency to which grant check is to be paid:

NHFPL Foundation

133 Elm Street

New Haven, CT 06510

Federal Employer Identification Number: 06-1283798

By standardized assessment, total funds available, and AENGLC rating, your library has been deemed eligible for \$78,250.00 for equipment and installation fees to upgrade your internal connections. By signing below, you indicate your interest in applying for these funds.

Maureen Sullivan  
Signature of Authorized Official

5/30/2023

Date

Maureen Sullivan, Acting City Librarian

Typed Name and Title