# MSLN Annual Report

## March 31

# 2021

**Report from the Maine State Library and the Maine Department of Education to the Maine Public Utilities Commission for Funding Year 2021-2022 (July 1, 2021 through June 30, 2022)**

## Maine School and Library Network

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# Introduction

The Maine Public Utilities Commission (MPUC) requires that the Maine State Library (MSL) and the Maine Department of Education (MDOE) present to the MPUC an annual plan that addresses how Maine Telecommunications Education Access Fund (MTEAF) funds will be spent to address the connectivity needs of Maine schools and libraries. Networkmaine is a consortium formed in 2009 by the MDOE and MSL along with the State of Maine's Office of Information Technology and the University of Maine System (UMS) to support participating Maine schools and libraries efficiently. This effort is known as the Maine School and Library Network (MSLN).

Networkmaine operates through a coordinating council that is comprised of representatives from each of the collaborating organizations as well as 2 representatives from each community. The Networkmaine Council sets the outcomes, delivery strategies, annual budget, and approves the annual reports and funding requests. It also defines its funding priorities, procurement strategies and sets any fees that are assessed to consortium members.

Schools, school districts, and libraries voluntarily elect to participate in the Networkmaine consortium by signing participation agreements and letters of agency allowing the consortium to contract for services and file for E-Rate subsidies on their behalf. Employees of the University of Maine System carry out the day-to-day functions of Networkmaine. Networkmaine's primary focus is the operation of Maine's research and education network with one of its most visible and important roles being ensuring that Maine's K12 schools and libraries have access to Internet connectivity through the MSLN project.

The Executive Director of Networkmaine was tasked by the Networkmaine Council with submitting this Annual Report for FY 2021-2022 on behalf of the MDOE and MSL. This report highlights the events impacting the Maine School and Library Network project over the past year, details how the requested funds will be spent to address the connectivity needs of Maine schools and libraries in the year to come and includes the MDOE's and MSL's request for funding from the Maine Telecommunications Educational Access Fund (MTEAF).

# Activity Report

## Federal Funding Challenge Resolved

As previously reported, Networkmaine has been dealing with an unexpected delay and potential loss of funding from the federal E-Rate program. For Funding Year 2018-2019 Networkmaine received notice from the Universal Service Administrative Company (USAC) that administers the E-Rate program that one of its E-Rate applications filed for Funding Year 2018-2019 was denied. The denied application included a reimbursement request of $941,715.12 for data transport services from one (1) of the seven (7) companies that provide *Transport Services* for the MSLN project. The data transport contract has a three-year term so the funding denial decision impacted FY 19-20 and FY 20-21 as well. Networkmaine filed an appeal with USAC to contest the decision which was also subsequently denied.

Networkmaine filed a petition[1] with the FCC on April 26, 2019 requesting that they overturn USAC's decision engaged Broadband Legal Strategies[2] (BLS) to represent, advise, and assist Networkmaine with bringing the FCC petition to a positive and timely resolution.

BLS met with FCC staff in December 2019[3] concerning specifics of Networkmaine's petition as well as others that have had USAC deny funding requests due to minor clerical corrections made during an RFP process. It was hoped that a public notice concerning E-Rate petitions would include a positive ruling within a few months.

**Mitigating the Impact**

While Networkmaine filed a petition with the FCC on April 26, 2019 requesting that they overturn USAC's decision, the petition remained open and therefore USAC's denial continued to stand going into funding year 2020-2021.

Upon receiving the initial funding denial from USAC in January 2019 in order to reduce the impact of this potential loss of E-Rate reimbursement Networkmaine immediately stopped activities and froze spending in the *Technical Services* and *Operational Services* categories. The replacement of aging equipment at the schools and libraries and at the core of the network was stopped, on-site support was reduced to minimize travel expenses, and some staffing actions were delayed.

Subsequently Networkmaine received notices from USAC denying both FY19-20's and FY20-21's funding for the same contract from FY18-19 based on their original findings. The Networkmaine Council curtailed activities for both FY19-20 and FY20-21 in order to operate MSLN within the reduced funding available. The majority of the cost reduction has been achieved by deferring the replacement of aging network equipment.

**FCC Grants Relief**

Since receiving the original funding denial from USAC, Networkmaine had been keeping Senator King's office updated on the situation. With the state nearly three months into the global pandemic and no resolution to the FCC appeal in sight, Networkmaine requested assistance from Senator King's office on June 2, 2020. The hope was that a call from the Senator's office to then Chairman Pai's office might help get things moving.  Adam Lachman of Senator King's office subsequently met with senior staff from Chairman Pai's office about our pending appeal. On June 30, 2020 Networkmaine received notice that the FCC ruled in Networkmaine's favor and instructed USAC to process our FY18-19 through FY20-21 funding requests it had previously denied. On December 22, 2020 Networkmaine received the final reimbursement from USAC associated with the originally denied request.

## Pandemic Response

The pandemic and subsequent shutdown of schools, libraries, and the rest of the state created new challenges for everyone. Throughout the pandemic Networkmaine has done its best to assist

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[1] https://www.fcc.gov/ecfs/filing/1042663339866
[2] http://www.broadbandlegal.com/p/intro.html#.XhdsthdKgvo
[3] https://www.fcc.gov/ecfs/filing/12160176023956

schools and libraries through knowledge sharing[4], its *StudyFromCar*[5] initiative that created a map of over 200 Wi-Fi hotspots across the state, and its *Remote and Hybrid Learning* webinar series[6] that convened educators and technology directors from across the state to share best practices and local plans for supporting learning during the pandemic. Along with Networkmaine's efforts, the Maine State Library and Maine Department of Education has worked tirelessly to assist Maine's students, teachers, and citizens during the pandemic.

## Virtual Events and Meetings

The Maine State Library collaborated with Networkmaine to provide Zoom Pro subscriptions to over 130 libraries in Maine for virtual programming and meetings. The Maine State Library used CARES-LSTA funding available through the Institute of Museum and Library Services. MSL has committed to ongoing funding using both CARES and ARPA funding to provide accounts through NetworkMaine for at least 4 years. The Zoom subscriptions plus the highspeed MSLN connections at libraries have made created an explosion of virtual programming in libraries across Maine during the pandemic. MSL maintains a catalog of these events on the *Statewide Library Virtual Events - Upcoming Events calendar*[7] page of its website. MSL has also hosted more than 60 statewide and regional Zoom sessions provide guidance and receive feedback on the challenges Maine libraries face during the COVI-19 pandemic. Over 7,000 librarians have participated in these meetings that are recorded and archived at the Coronavirus webpage[8].

## Online Summer Reading Program Plus

Beanstack[9] is an online reading challenge program that can be used for summer reading and for year- round reading challenges to keep all ages of readers engaged outside the library walls. Over 120 libraries in Maine signed up to offer this virtual reading program, each with its own dedicated website. MSL's Children's Literacy Specialist has worked with libraries to troubleshoot and fine tune websites and create Maine specific reading challenges.  The Maine State Library will continue to fund virtual summer reading with CARES Act and ARPA funding.

## ConnectKidsNow! – Devices and Hotspots

ConnectKidsNow! [10] was a combined effort between the Maine Department of Education, the Department of Administrative and Financial Services, ConnectME, and business and philanthropic entities, to secured internet access and devices to facilitate at home learning for 100 percent of Maine school children for whom there was a reported need.
Need was assessed by the Department of Education through several surveys of all traditional and non-traditional public schools and private schools who serve public students to understand the connectivity needs statewide. Of the 24,123 students statewide lacking connectivity, based

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[4] March 14, 2020 – https://networkmaine.net/understanding-network-impacts-of-increased-online-learning-activities/

[5] March 23, 2020 – https://networkmaine.net/study-from-car-initiative/

[6] August 8, 2020 – https://networkmaine.net/past-events/

[7] July 2020 – https://maine-msl.libcal.com/calendar/pubevents/?cid=12840&t=d&d=0000-00-00&cal=12840&inc=0

[8] https://www.maine.gov/msl/libs/services/Coronavirus.htm

[9] https://www.beanstack.com/

[10] April 2020 – https://bangordailynews.com/2020/04/26/opinion/pandemic-shows-that-maine-students-need-better-internet-access/

on data from the 84 percent of schools that responded, 16,772 students needed a wireless contract and 7,351 students needed only a device in order to have equitable access to online learning opportunities.

The need for universal connectivity was identified as the top priority of stakeholders across the state in terms of mitigating the impact from the COVID disruption. Teachers have been struggling to connect with the many students and families who do not have access to the internet.

The Administration utilized federal funds, including a portion of Maine's $9.3 million allocation from the Governor's Emergency Education Relief (GEER) Fund, which was allocated through the federal CARES Act, as well as philanthropic donations, to purchase the



1 SeDoMoCha School Technology Director Matthew Larrabee receives a delivery of Wi-Fi-enabled tablets from Maine DOE Coordinator of Secondary Education and Integrated Instruction Beth Lambert

devices and wireless service contracts to meet the identified need for universal connectivity for Maine students.

## ConnectKidsNow! – Infrastructure

ConnectMaine in partnership with MDOE and with funding provided through the Coronavirus Relief Fund (CRF), administered a fast-tracked infrastructure grant program to buildout broadband infrastructure to students and teachers that did not have access to broadband at home. The MDOE collected information about student families that lacked broadband availability from school districts and provided a count of households at a street segment level to ConnectMaine. The criteria for the grant program required as a minimum a 50 Mbps down / 10 Mbps up broadband service offering, no limitations on the amount data sent or received, and a service availability date by Dec 30, 2020 or before. The first two criteria were to ensure students and teachers would be able to successfully participate in remote learning that involved video conferencing. The time frame criterium was a requirement of the CRF and presented a significant challenge for ISPs to meet.

## Gigabit Upgrades for Schools

Remote and hybrid learning models have driven the need for additional bandwidth especially at the elementary level. In order to implement safety requirements that have proven to reduce the risk of transmission of COVID-19, many-school districts are using some form of hybrid learning where half of the student body is in the classroom and the other half participate remotely. The heavy usage of video conferencing and increase in 1:1 ratio



of learning device to student has dramatically increased bandwidth consumption at schools, necessitating the upgrades to gigabit speeds.
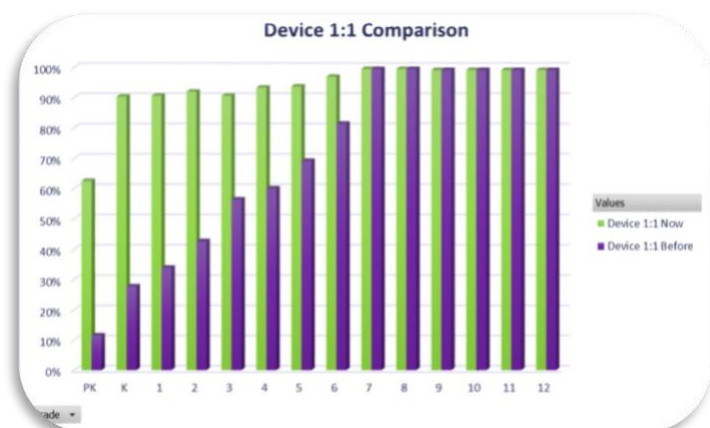
The MSLN Gigabit Upgrade project started in November with all upgrades to schools expected to be completed by the end of April. Networkmaine was able to leverage additional E-Rate funding the FCC made available in September in response to the COVID-19 pandemic to bring bandwidth relief to Maine's preK-12 schools this year.

## Summary

Reliable, fast, low-latency, and symmetric network connectivity is an absolute necessity for Maine's schools and libraries. It is what enables everything from the most traditional of services and functions provided to and by these institutions to the most modern and innovative. The Networkmaine Council and staff has spent countless hours working to ensure that Maine's K12 schools and public libraries have this essential need met through the MSLN project. The MTEAF was created by the Maine Legislature to carry out the policy goals of universal access, economic development and information access established by section 7101, subsections 1, 2 and 4, of Maine Revised Statutes. This year's MTEAF funding request of roughly $3.6M, in combination with funding from the MDOE ($445K) and anticipated Federal E-Rate funding ($3.7M), will contribute to the delivery of the essential services described later in this report.



While FY20-21 has been a difficult year for MSLN project participants, Networkmaine has worked diligently to reduce the impact of the pandemic induced challenges on Maine's schools and libraries.

The plans for FY 2021-2022 described in this report will continue to support the great work of Maine's K12 schools and public libraries.

## Recommendations for Funding Year 2021-2022

The MDOE and MSL are confident that the plans and adjustments they have made for FY 2021-2022 will position the MSLN project to meet the connectivity needs of Maine's K12 schools and public libraries. Therefore, for Funding Year 2021-2022 (July 1, 2021 – June 30, 2022), the MSL and MDOE respectfully submit the following recommendations for funding to the Commission for its consideration.
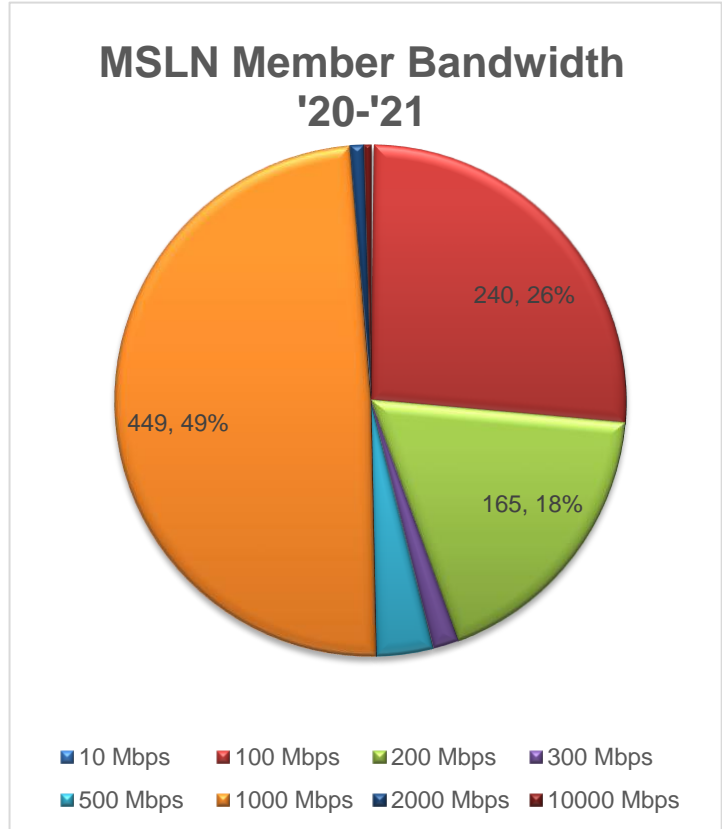
### I. Continued Funding for Services

The MSL and the MDOE request continued funding for services to all qualified schools and libraries pursuant to 35-A M.R.S.A. § 7104-B(1) (referred to as MSLN) as further described below.

## A. Transport Services

In October of 2020, Networkmaine released an RFP for Transport Services starting July 1, 2021 which resulted in awards to five (5) transport providers. This funding request is for the first year of the resulting contracts. The total expenditure on Transport Services, both MTEAF and E-Rate funds, is expected to be $5.2M for FY21-22.

This Transport Services funding request for FY21-22 is $746,900 less than the current year in part due to a lower overall expense. However, the majority of the decrease is due to the FCC appeal that was still pending when we submitted last year's report. This funding request assumes that Federal E-Rate program will pay an average of 71% for all approved schools and libraries.

**MSLN Member Bandwidth '20-'21**

240, 26%

449, 49%

165, 18%

- 10 Mbps
- 100 Mbps
- 200 Mbps
- 300 Mbps
- 500 Mbps
- 1000 Mbps
- 2000 Mbps
- 10000 Mbps

The total expenditure on Transport Services, both MTEAF and E-Rate funds, will be $300K ($5.5M -> $5.2M) lower in the coming year than it was on July 1, 2020. Besides achieving these savings with the new contracts, we also increased the minimum connectivity goal for the MSLN Project from 100 Mbps to 1.0 Gbps and have been successful in achieving this goal for 99% of all MSLN participants.

The MSL and the MDOE request that MTEAF funds be made available for acquiring Transport Service for FY 2021-2022

**Anticipated impact on MTEAF is $1,508,000**

## B. Internet Access Services

Networkmaine currently contracts for Internet access from three (3) separate providers in three (3) different cities; Cogent Communications in Cambridge, MA, Hurricane Electric in Portland, ME and FirstLight in Orono, Maine. This Internet Access Services funding request is $4,800 less than the current year despite the overall increase in capacity of 10 Gbps due to the decrease in rates by one of the providers. These Internet connections are augmented with direct connections to Internet2, the national Research and Education Network, and to major content providers through Internet Exchange Points.

In the past year, Networkmaine has established a direct peering connection with Facebook through the Massachusetts Internet Exchange (Mass-IX). Content from any of Facebook's services destined to MSLN participants now prefers to travel over this direct connection rather than over the Internet providing lower latency and greater resiliency. Direct peering with other major content providers is being considered for the coming year.

The use of settlement-free peering and on-net Content Delivery Network (CDN) caches slows the rate of growth in Internet Access by redirecting traffic from content providers to multiple Internet exchange points and CDN caches. Despite an annual average growth of 30% in bandwidth consumption by the MSLN project, Networkmaine has been able to more than offset that growth with these other types of connections.

**Internet Bandwidth**
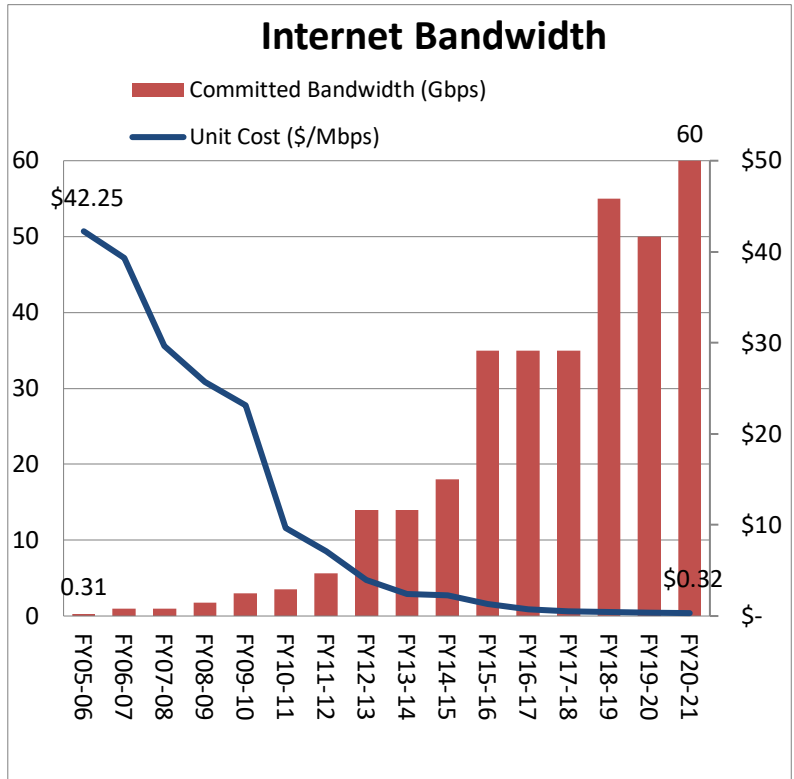


The MSL and the MDOE request that MTEAF funds be made available for acquiring Internet Access Service for FY 2021-2022

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**Anticipated impact on MTEAF is $62,700**

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## C. CIPA Compliant Content Filtering

The MTEAF currently supports the full cost of providing a cloud-based, locally managed content filtering solution that helps meet the requirements of the federal Children's Internet Protection Act (CIPA) while minimizing the administrative and technical burden on the schools and libraries. While CIPA compliance is a requirement to receive E-Rate reimbursement for eligible services, solutions for meeting the requirement are not eligible for E-Rate funding.

Networkmaine has contracted for a cloud-based solution from Cisco to provide content filtering for the schools and libraries. Cisco Umbrella provides more than just content filtering, it also helps protect the schools and libraries from known malware and phishing sites.

The MSL and the MDOE request that MTEAF funds be made available for the continued funding of content filtering for FY 2021-2022.

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**Anticipated impact on MTEAF is $156,000**

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## D. Electronic Content and E-Discovery Solution

The MSL and the MDOE recommend the continued subscriptions of electronic content and an E-Discovery solution to provide statewide access for citizens as through the Digital Maine Library, permitted by 35-A M.R.S.A. § 7104-B.

**Digital Maine Library**

The Digital Maine Library provides all library types and every Maine resident access to online content and resources that include a collection of full text articles and abstracts from magazines, newspapers, journals and reference books. It also provides students, business people, public library patrons, and higher education students and educators the ability to use online learning tools.

Funding for the Digital Maine Library content comes from a variety of sources. MTEAF provides funding on behalf of the public libraries and K12 schools. Additional funding is provided by the Maine State Library (state general fund and LSTA federal funds), the University of Maine System, Bates, Bowdoin and Colby Colleges. The paid content included in this online resource is not available through search services like Google or freely available on the Internet.



**Popular Content**

The K-5 elementary school students and teachers are enjoying access to National Geographic Kids the World Book Encyclopedia series and Middle and High School students and their teachers are finding the In Context: Middle and High School reference content and great research tools. Expanded access to national and global newspapers as well as access to premium business journal articles and resources for entrepreneurs assists business owners. Career Transitions, a resource for job seekers helps people improve their chances of finding sustainable employment. The Digital Maine Library contains a combination of over 100 paid and free resources easily accessed from anywhere in Maine via geolocation/authentication.

**E-Discovery**

A product called *EBSCO Discovery Service* ™ (EDS) is a "single search" solution used for the Digital Maine Library content. The system indexes metadata and content from the disparate Digital Maine Library resources, normalizes the data and provides a simple interface for users. EDS provides a fast, streamlined, user-centric approach to searching the Digital Maine Library databases and resources with the MaineCat statewide catalog. EDS provides residents of the state a single starting point from which the full depth and breadth of the collection of online resources available while also offering a simple interface and results page for users. A $20,000 reduction in the cost of this service was realized through the negotiations of a new contract.

The MSL and the MDOE recommend continued funding for the Digital Maine Library content databases, online resources and the *EBSCO Discovery Service*™ single search product for FY 2021-2022.

**Anticipated impact on MTEAF is $662,600**

### E. Technical Services

Expenses for third-party services, equipment, software, and maintenance that are not E-Rate eligible are included as part of this Technical Services category if they are not specifically requested in a separate funding request. These services typically include but are not limited to, constituent premise equipment (CPE), Internet 2 Community Anchor Program (CAP) fees, IPv4 address space, volumetric distributed denial of service (DDoS) protections, hardware and software maintenance for core networking equipment, and core network equipment upgrades and replacements.

This year's request represents a $355,000 increase over what was requested for FY20-21. This additional funding will be used for both CPE and core network equipment the replacement of which was deferred waiting for the outcome of the resulting FCC petition. As a result of these deferrals, the MSLN Project currently has CPE in use at schools and libraries that exceeds its expected useful life (5-7 years). Keeping CPE in use past its expected life span greatly increasing the risk of its failure which would cause a loss of Internet connectivity for the school or library until the device is replaced.

The MSL and the MDOE leverage MaineREN, Maine's Research and Education Network, as the optical backbone for MSLN. Multiple 10 Gbps optical transports are dedicated for aggregating the traffic to/from the K12 schools and public libraries between MaineREN's optical nodes. In FY20-21, approximately 27% of MSLN participants connected directly to MaineREN either over leased dark fiber or via regional Transport Providers that deliver MSLN participants to the nearest MaineREN point of presence. Participating schools and libraries also share multiple 10 Gbps optical transports with other MaineREN participants to connect to both Internet2 and contracted Internet Service Providers out of Cambridge, MA.

The MSL and the MDOE request that MTEAF funds be made available for the continued funding of Technical Services for FY 2021-2022.

**Anticipated impact on MTEAF is $560,000**

### F. Operational Services

Networkmaine provides the day-to-day operation and end user support for MSLN. These Operational Services involve Network Operations Center support services including but not limited to:

- Network monitoring
- Problem tracking and resolution
- Constituent premise equipment (CPE) configuration
- Transport and Internet access vendor management
- Network upgrade and installation management
- Technical security services

- Onsite technical support
- On-Line Security Services

In addition, Networkmaine provides schools and libraries with network design consultation, website hosting, Domain Name Services, DHCP services, and IP address management.

For number of years, due the various financial challenges the MSLN Project has faced, the MDOE has contributed funds towards these Operational Services. In FY20-21 MDOE contributed $75,000 toward the operation of MSLN. With this year's request, the MSL and the MDOE request that MTEAF funds be made available to fully support the costs to operate MSLN Project for FY 2021-2022.

### Anticipated impact on MTEAF is $596,100

## II. Administrative Services

The MDOE funds the administrative costs of MSLN through a Cooperative Agreement with the University of Maine System. Along with this direct financial contribution by the MDOE, MSL provides in-kind contributions through staffing the State E-Rate Coordinator position for libraries. No MTEAF funds are spent administering the MSLN project except for the fees paid by the PUC to the MTEAF fund administrator. The Administrative Services provided to the MSLN project are detailed below.

### A. Fund Administrator

The MSL and the MDOE ask that the Commission re-authorize the expenditure of funds to pay for a fund administrator to assess carriers, collect funds from carriers and make payments from the Fund (as permitted by 35-A M.R.S.A. §§ 7104-B(2) and 7104(3)).

### Anticipated impact on MTEAF is $ 35,900

### B. E-Rate Support

Networkmaine acts as the E-Rate Filing Consortium lead on behalf of participants in the MSLN project for all eligible services associated with the project. In that role, Networkmaine manages the entire filing process and certification of the federal E-Rate paperwork. In addition, Networkmaine fulfills the role of State E-Rate Coordinator for Maine's K12 schools. Networkmaine's involvement in assisting schools with the E-Rate filing process for both MSLN project and non-project E-Rate eligible services include providing training, information dissemination, answering questions about the E-Rate filing process, and assisting schools with Program Integrity Assurance requests from USAC.

As in the past, Networkmaine is leveraging its web-based consortium enrollment site[11] to ease the E-Rate process for the K12 schools and libraries.  This site allows Networkmaine to greatly computerize and automate the data collection and form completion process.  No longer are the schools and libraries asked to manually fill out information on paper forms that are readily available in both federal and state government data sources.  Instead this data is automatically incorporated into the forms greatly reducing the chance of human error.  The participating schools and libraries only need to fill out their site-specific information on the web site and confirm various certifications. Once completed, the schools and libraries

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download the various forms (Letters of Agencies, Form 479s, etc.) from the web site which are already filled out with all the appropriate and provided information ready for them to sign and return to Networkmaine.

The consortium enrollment site has been well received over the years. Networkmaine makes improvements each year to incorporate feedback received in the previous year. Modifications are also made to reflect regulatory or process changes in the E-Rate Program for the coming funding year.

**Anticipated impact on MTEAF is $ 0**

## C. Contract Management

Networkmaine successfully negotiated contracts for transport services with five service providers for the next three years: Consolidated Communications, FirstLight, Lincolnville Communications, UniTel, and OTELCO and contracts for Internet Access Services with Cogent Communications, FirstLight and Hurricane Electric. The entire procurement process from writing the RFPs to final contract negotiations is managed by the University of Maine System's Strategic Procurement Office. As the University of Maine System is the customer of record on these contracts, its Strategic Procurement Office will continue to ensure that the contracts are adhered to and will maintain all required documentation related to the contracts for ten years after their service term as required by the E-Rate program rules.

**Anticipated impact on MTEAF is $ 0**

## D. Invoicing

Networkmaine handles all invoicing activities related to MSLN. These activities include receiving the invoices from the contracted service providers, verifying their accuracy, submitting the invoices for reimbursement from both the MTEAF and the E-Rate Program, reconciling payments, and maintaining records for the time frame required by the E-Rate Program rules. Networkmaine leverages UMS' Accounts Payable department and their electronic document management and imaging system for many of these activities.

**Anticipated impact on MTEAF is $ 0**

## E. Budgeting and Financial Management

The MSLN project budget is regularly reviewed and managed by the Executive Director of Networkmaine and the Networkmaine Council consisting of members from MDOE, MSL, OIT, UMS and appointed public school and library representatives. The University of Maine System's Director of Sponsored Programs and Administration monitors and accounts for the project budget.

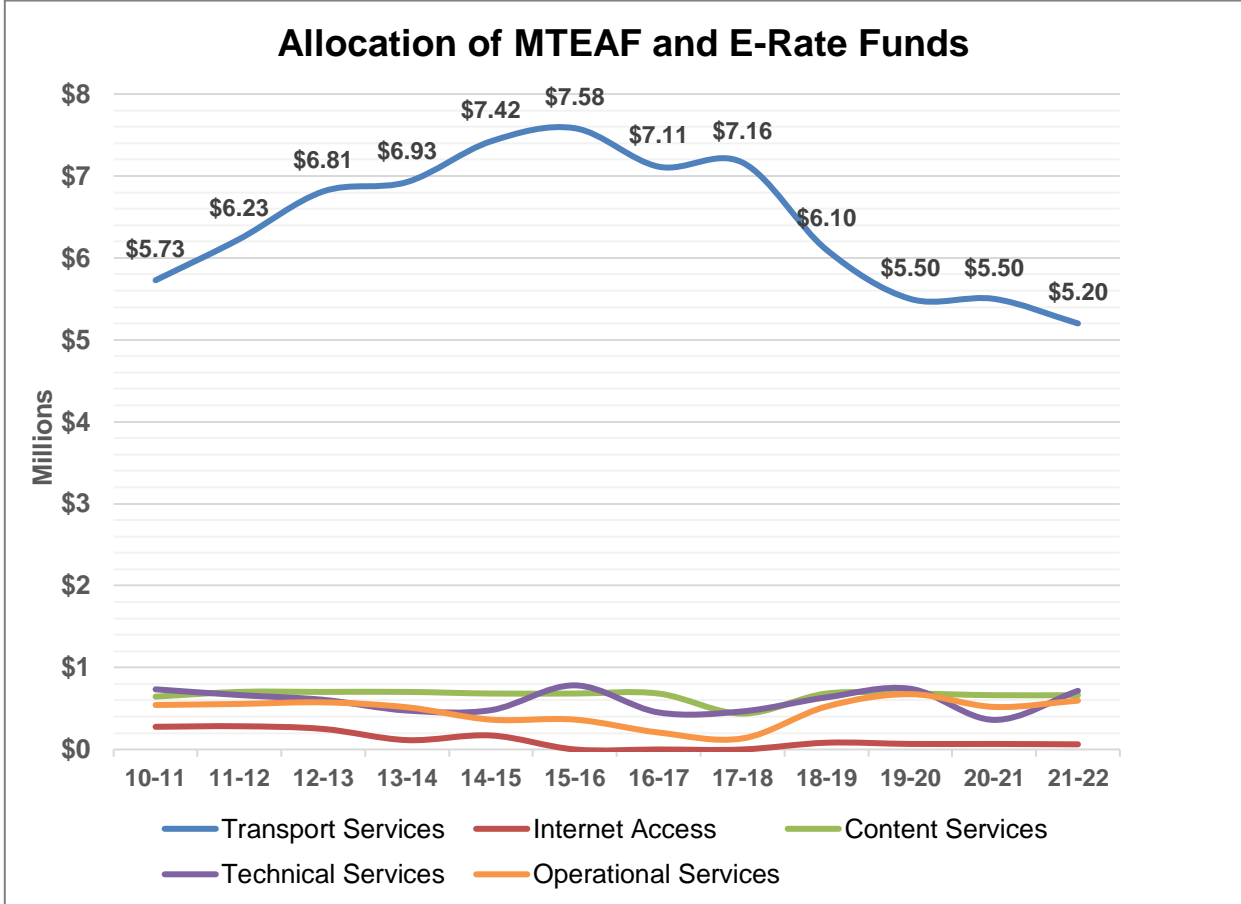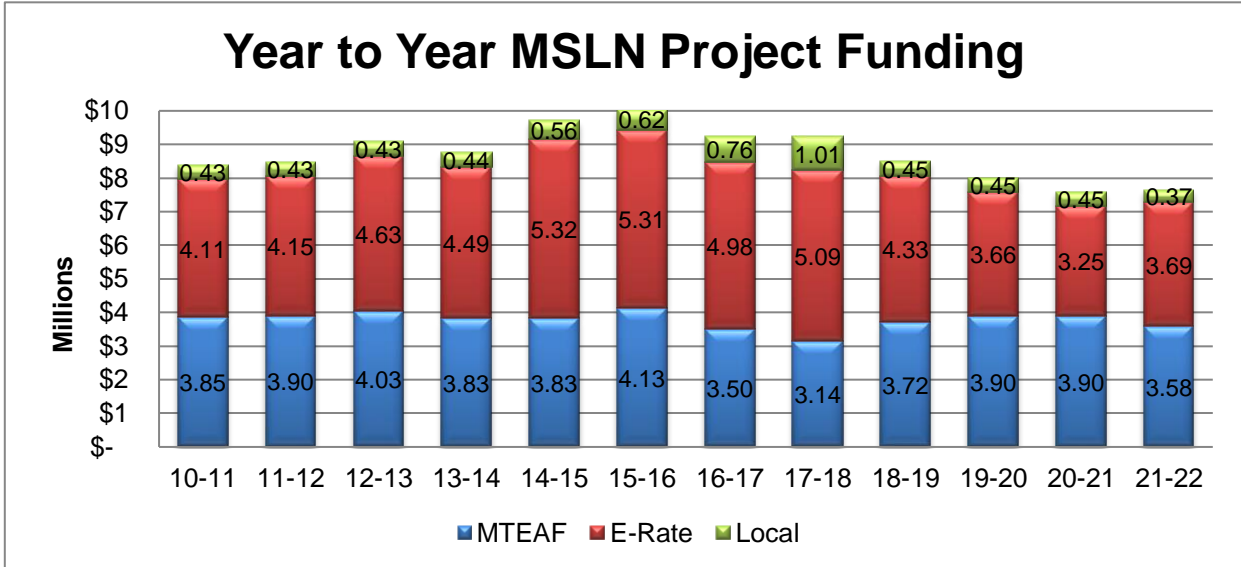**Anticipated impact on MTEAF is $ 0**

# Appendix A

## Comparison of MTEAF Funding: Funding Years 2016 - 2021

| Services | 2016-2017 Actual | 2017-2018 Actual | 2018-2019 Actual | 2019-2020 Actual | 2020-2021 Approved | **2021-2022 Requested** |
|---|---|---|---|---|---|---|
| Transport Service[12] | $1,956,533 | $2,029,231 | $2,178,461 | $2,212,547 | $2,254,900 | $1,508,000 |
| Internet Service | $ 0 | $ 0 | $ 77,500 | $ 67,500 | $ 67,500 | $ 62,700 |
| CIPA Compliant Content Filter | $ 100,658 | $ 100,658 | $ 155,520 | $ 155,520 | $ 156,000 | $ 156,000 |
| Electronic Content & E-Discovery | $ 682,600 | $ 500,000 | $ 682,600 | $ 662,600 | $ 662,600 | $ 662,600 |
| Technical Services | $ 309,927 | $ 339,658 | $ 252,716 | $ 154,821 | $ 205,000 | $ 560,000 |
| MTEAF Fund Administrator | $ 25,100 | $ 25,100 | $ 25,100 | $ 34,300 | $ 34,900 | $ 35,900 |
| Operational Services | $ 425,094 | $ 144,678 | $ 346,867 | $ 412,183 | $ 519,100 | $ 596,100 |
| **Totals:** | **$3,499,912** | **$3,139,325** | **$3,718,764** | **$3,699,471** | **$3,900,000** | **$3,581,300** |

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[12] Total cost prior to expected E-Rate reimbursement: 2021-2022 - $5,200,000

# Appendix B

## MSLN Project Budgets - Funding Years 2010 – 2021



**Year to Year MSLN Project Funding**

| | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Local | 0.43 | 0.43 | 0.43 | 0.44 | 0.56 | 0.62 | 0.76 | 1.01 | 0.45 | 0.45 | 0.45 | 0.37 |
| E-Rate | 4.11 | 4.15 | 4.63 | 4.49 | 5.32 | 5.31 | 4.98 | 5.09 | 4.33 | 3.66 | 3.25 | 3.69 |
| MTEAF | 3.85 | 3.90 | 4.03 | 3.83 | 3.83 | 4.13 | 3.50 | 3.14 | 3.72 | 3.90 | 3.90 | 3.58 |

■MTEAF ■E-Rate ■Local



**Allocation of MTEAF and E-Rate Funds**

Transport Services: $5.73, $6.23, $6.81, $6.93, $7.42, $7.58, $7.11, $7.16, $6.10, $5.50, $5.50, $5.20

Legend: Transport Services, Internet Access, Content Services, Technical Services, Operational Services

*Networkmaine established in FY 10-11

# Appendix C

## Networkmaine Council Members

- Maine State Library – James Ritter, State Librarian
- Maine Dept. of Education – Beth Lambert, Dir of Innovative Teaching & Learning
- Maine Office of Information Technology – Nick Marquis
- University of Maine System – David Demers, Chief Information Officer
- Library – Anne Davis*, Gardiner Public Library
- Library – Richard Fortin, Bailey Public Library
- K12 School – Will Backman, Waterville, Winslow, and Vassalboro Public Schools
- K12 School – Dennis Crowe, Gorham School Department
- Ex-officio – Jeff Letourneau, Executive Director, Networkmaine (non-voting)

*Chairperson