

**Report of the Maine State Library and the Department of Education
to the Maine Public Utilities Commission for Funding Year 2010
(July 1, 2010 through June 30, 2011)**

Overview

The Maine Public Utilities Commission (MPUC) required that the Maine State Library (MSL) and the Maine Department of Education (MDOE) present to the MPUC in June 2009, a plan that addresses how Maine Telecommunications Educational Access Fund (MTEAF) money will be spent to address the capacity needs of Maine Schools and Libraries starting July 1, 2010. The MDOE and MSL approached this responsibility by establishing an open process that included input from State of Maine Office of Information Technology (OIT), The Executive Director of ConnectME, The Project Manager for the MSLN, The University of Maine System and the K-12 educational sector including the Technology Coordinator for MSAD 42 as a representative of the Association of Computer Technology Educators of Maine (ACTEM). The cumulative effort to date is incorporated into this document as Appendix A.

Based on an analysis of the current educational and library requirements and the existing technological environment, the prime structural goal is to create a technology cooperative of partners concerned with local public bandwidth access in order to maximize the economic and educational benefits of technology as well as to achieve the greatest discounts, (Federal and State) by aggregating demand. Rather than reinventing the wheel, we looked to other states have done in this area to guide our efforts.

There are roughly thirty states that have state-wide networks often referred to as state-networks¹. These state-networks follow one of three common structural models; a consortium led by a public university, a consortium led by a state agency, or a 501c3 not-for-profit organization. We have used one of the earliest and most successful examples of these state-networks, MOREnet (Missouri Research and Education Network) as a basis for our efforts to define the structure and mission of state-network in Maine. The Memorandum of Understanding, Appendix B, is the first step and vision of achieving this goal by creating a new entity called NetworkMaine.

As we work through this process including releasing and RFP for 2010 during June thru September 2009, our plan is to have a more complete report to come in October 2009.

Therefore, the following conclusions have been reached:

1. The bandwidth needs of both schools and libraries, in many cases, far exceed the services covered by existing contracts. The transport medium to deliver bandwidth cannot stay the same, i.e. T1's, DS3's, etc. However, the transport medium necessary to deliver the bandwidth required by our schools and libraries

¹ <http://www.educase.edu/StateNets> and <http://www.thequilt.net/>

is not available in all regions of the state. Therefore, increasing the bandwidth available to our schools and libraries will be an evolutionary, not revolutionary, process.

This transition will take time, but as community anchor institutions we will help drive the expansion of broadband services into our communities by simply demonstrating our need for bandwidth through the RFP process. As we negotiate new contracts for services, we will ensure that no school or library is left disadvantaged or without service. Every school and library will have at least the same level of connectivity as they have today. Many, if not most, will have the bandwidth they need to meet their educational and community service goals.

2. The initial contract period for ATM services was renewed for two additional years effective July 1, 2009. The State negotiated contract with FairPoint allows for a technology migration during the contracted period or for early termination of service with an associated fee. If FairPoint is unable to deliver new transport technologies by July 2010 and, as part of the RFP process, it is found that it is more cost effective to contract with another transport provider for services, we will do so.

Therefore, for Funding Year 2010 (July 1, 2010 – June 30, 2011), the MSL and MDOE respectfully submit the following initial request to the Commission for its consideration:

Recommendations for Funding Year 2010-2011

I. Innovative and Technologically Advanced Program

Title 35-A M.R.S.A. § 7104-B(5) requires that “[a] minimum of 25% of each annual program budget must be devoted to targeted projects that are innovative and technologically advanced.” The MTEAF fund previously met this requirement by funding ATM and Marvel databases. As we forge ahead with the new organizational, administrative, and technological structures, qualified schools and libraries will have the bandwidth capacity that will meet this requirement by enabling “innovated and technologically advanced” use of the network in our classrooms and libraries.

Accessing innovative or technology advanced applications is enabled by high speed network connections and 1-to-1 computing initiatives, like MLTI. Therefore, the need to dedicate 25% of the annual budget to specific innovative and technology advanced projects will be fulfilled by the daily use of the network. There will be no limits to innovative and technology advanced uses of the network such as the NSF funded Innovative Technology Experiences for Students and Teachers (ITEST)

programs like the EcoScienceWorks Project² or the Inquiry-based Dynamic Earth Applications of Supercomputing (IDEAS) Project³.

II. **Continued funding for services**

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

A. **Transport Services**

Assuming Federal E-Rate will pay a minimum of 68% for approved schools and libraries, it is anticipated that newly negotiated contract(s) for Transport Services will be able to be provided at a cost to the MTEAF similar to previous years. Unlike previous years, the host circuits that are used to aggregate the transport services of the schools and libraries will be included in the Transport Services contract(s).

Anticipated impact on MTEAF is \$ 1,422,000

B. **Internet Access Services**

Assuming Federal E-Rate will pay a minimum of 68% for approved schools and libraries, it is anticipated that newly negotiated contract(s) for Internet Access Services will be able to be provided at a cost to the MTEAF much lower than in previous years. The primary reason for the reduction in this area is that additional administrative and technical services are now being accounted for separately rather than as part of the Internet Access Service. In the Funding Year 2010 (July 1, 2010 – June 30, 2011) only the E-Rate eligible part, roughly 50%, of the Internet Access contract(s) negotiated by NetworkMaine are included.

Anticipated impact on MTEAF is \$ 55,000

C. **Circuit Riders**

The MTEAF currently supports the “circuit rider” program which provides support by phone, e-mail, and onsite visits to assist schools and libraries that do not have on-site technical support. The program has continued to be extremely effective, with

² **EcoScienceWorks** is an NSF ITEST project for seventh and eighth grade science teachers and students in Maine. Its major goal is to develop computer-based curriculum for the Maine laptop program that will spur student interest in computer modeling in science. <http://www.fbr.org/swksweb/esw.html>

³ **IDEAS** connects researchers at the University of Maine with students and middle school teachers, both at the University (during a summer workshop) and at participating schools (during the academic year) to utilize computer modeling and visualization of geological processes in the classroom. IDEAS has 60 participating teachers as well as 180 students. The focus of this project is to integrate computational modeling with the existing science curriculum at the middle school level. This is accomplished largely by collectively utilizing existing laptop computer computational power and networking capability to run computer models, both locally and at the University supercomputer, and to create high resolution interactive visualization displays (from the same laptops) to view the output. http://arch.eccc.maine.edu/ideas/index.php/Main_Page

positive and appreciative support from many of our small schools and libraries. Without this program many smaller schools and libraries would be without the ability to effectively use technology. The MSL and the MDOE propose continuation at the current cost annually to cover salary and miscellaneous expenses like additional support, travel, tools. It is anticipated that the services provided through the “circuit rider” program will be managed by NetworkMaine in order to bring greater continuity and consistency of support services to the schools and libraries.

Anticipated impact on MTEAF is a \$ 120,000

D. CIPA Compliant Content Filtering

The MTEAF currently supports the full cost of providing a centrally managed content filtering solution that helps meet the requirements of the federal Children’s Internet Protect 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 Internet Access Service, solutions for meeting the requirement are not eligible for e-rate funding.

Anticipated impact on MTEAF is a \$ 175,000

E. Content Databases

The MSL and the MDOE recommend the continued purchase of electronic databases to provide statewide access for citizens through MARVEL, Maine’s Virtual Library, as permitted by 35-A M.R.S.A. § 7104-B. See Appendix C for MARVEL database usage.

Anticipated impact on MTEAF is a \$ 595,000.00

F. Technical Services

The MSL and the MDOE will be leveraging MaineREN, Maine’s Research and Education Network, as the optical backbone for MSLN. A 2.5 Gbps optical transport will be dedicated for aggregating the traffic to/from the K12 schools and public libraries between MaineREN’s optical nodes. Participating schools and libraries will share a 10 Gbps optical transport with other NetworkMaine constituents to connect to both Internet 2 and at least one Tier 1 Internet Service Provider in Cambridge, MA.

In addition, core network equipment and servers are used to provide layer 3 routing, e-mail and web hosting services which are kept on vendor hardware and software maintenance contracts.

Anticipated impact on MTEAF is \$ 439,000

III. Alternative Equivalent Value (AEV) for Transport Services

For Funding Year 2010 (July 1, 2010 – June 30, 2011): When schools and libraries can procure transport services at equal to or greater bandwidth at equal to or less cost than what would have been provided by the current negotiated contracts, MTEAF will reallocate funds at the same level of MTEAF support for MSLN. A historical example of such a situation has been the schools and libraries that have contracted for ATM transport services. We are including ATM as alternative Equivalent Value transport service, therefore we are no longer making a separate request for ATM funding under the Innovative and Technologically Advanced Program.

Approximately 75 sites have ATM circuits as their transport service instead of a T-1 line. These sites pay approximately \$1,600 per month for this service (based on the newly negotiated rate) and each site applies for Federal E-Rate (with discounts ranging from 20% to 90%). Because the sites use their ATM transport in lieu of a T-1, we have provided financial support from the MTEAF to cover some costs not paid for by Federal E-Rate. The Commission chose an estimate of half the amount remaining after applying the average school E-Rate discount, which for these high schools is 66%. Based on the new contract, \$272 represents approximately half the amount owed after E-Rate is applied.

Beginning in 2001, the Commission also agreed to provide financial support for elementary and middle schools that are networked to an ATM site. These are sites that otherwise would have been eligible for their own T-1. The MSL and the MDOE recommends that these shared sites continue to receive MTEAF funds in the amount for which they would otherwise be eligible, up to an amount not to exceed the monthly cost of the ATM connection where all the sites' credits are counted together.

NetworkMaine will review and approve all requests for AEV, ATM based transport or otherwise, to ensure that the cost to the MTEAF fund does not exceed what the cost would be if transport services were provided through the current negotiated contracts.

Anticipated impact on MTEAF: \$ 416,000

IV. ADMINISTRATION

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 a \$ 27,600

B. E-Rate Application Process

NetworkMaine will manage the certification of the federal E-Rate paperwork to lessen our dependence on outside consultancy. Increased training and professional

development opportunities will be provided for the DOE and MSL E-Rate coordinators and NetworkMaine staff who will jointly fulfilling the requirements of the E-Rate process.

However, the MSL and the MDOE anticipate continued need for E-Rate consulting as a contracted service. While the scope of the consulting service will be lessened, compliance and audit issues (including Program Integrity Requests, Selective Reviews and FCC audits) remain a significant challenge requiring consultant assistance. Of primary importance in implementing a new entity structure, RFP, and application process, is the assurance of E-Rate compliance. The added expertise of a national E-Rate consultant will help ensure eligibility and compliance as well as continued success in obtaining funding.

Anticipated impact on MTEAF is a \$ 150,000

C. Administrative and Operational Services

NetworkMaine will provide the day to day administration for MSLN. The MSL and the MDOE anticipates contributing \$643,000 towards the administrative costs of MSLN by incorporating the existing Cooperative Agreement between the University and MDOE for support of distance learning and by providing staff to help with the management of the E-Rate process. The MSL and the MDOE request that MTEAF funds be made available to offset the remainder of the costs to administer MSLN.

Administrative and Operational services include RFP creation, proposal review, and vendor selection; contract negotiation and administration; annual budget requests, management, and reporting; E-Rate filings, management, and reporting; as well and operational support and consultation. (See Appendixes A and B for further explanation of NetworkMaine services)

Anticipated impact on MTEAF is \$ 423,000

V. LIBRARIES CHOOSING NOT TO FILTER

In 2004, the Legislature amended 35-A M.R.S.A. § 7104-B(6) to allow public libraries to decline Federal E-Rate for internet service if they determine that applying for Federal E-Rate (e.g., complying with Federal E-Rate's filtering requirements) would substantially compromise the library's standards or mission. The statute allows the Commission to mitigate the loss of Federal E-Rate funds using the MTEAF.

Since the 2004-2005 program year the Commission has allowed non-filtering libraries to contribute \$25 per month toward the cost of Internet service with MTEAF paying the remainder of the amount that would typically be paid for by federal E-Rate. Under the current ISP contract, Internet service costs \$105 per month. Assuming Federal E-Rate will pay 68%, MTEAF should provide \$46.40 per month in additional subsidy for these non-filtering libraries. For Funding Year 2010 (July 1, 2010 – June 30, 2011), it is anticipated that 50 libraries will chose not to filter. Therefore, this additional subsidy will cost MTEAF approximately \$ 28,000 annually

which is comparable to the previous funding year. We ask that the Commission continue to fund this initiative

Anticipated impact on MTEAF is \$ 28,000

Comparison of funding requests

| Services | 2010-2011 | 2009-2010 |
|--|------------------------------------|----------------------------|
| Transport Service | \$1,422,000 ⁴ | \$1,178,185 |
| ATM Bandwidth Increase | (included in Transport Services) | \$ 120,000 |
| Adult Ed sites | N/A | \$ 16,128 |
| Increase in Lib/K12 sites | N/A | \$ 308,940 |
| Internet Service | \$ 55,000 ⁵ | \$ 382,891 |
| Circuit Rider | \$ 120,000 | \$ 120,000 |
| CIPA compliant Content Filter | \$ 175,000 | \$ 173,664 |
| Library Content Databases | \$ 595,000 | \$ 550,000 |
| Library Federated Searches | N/A | \$ 95,000 |
| MSLN Technical Services | \$ 439,000 | (part of Internet Service) |
| Alternative Equivalent Value (AEV) | \$ 416,000 | \$ 50,000 |
| ATM Sites | (included in AEV) | \$ 480,766 |
| MTEAF Fund Administrator | \$ 27,600 | \$ 27,600 |
| E-Rate Consultant | \$ 150,000 | \$ 233,000 |
| MSLN Administrative and Operational Services | \$ 423,000 | (part of Internet Service) |
| MSLN Project Manager | (part of MSLN Admin & Op Services) | \$ 85,000 |
| Libraries not Filtering | \$ 28,000 | \$ 29,510 |
| Totals: | \$3,850,600 | \$3,850,684 |

⁴ Cost prior to expected E-Rate reimbursement: \$4,443,750

⁵ Cost prior to expected E-Rate reimbursement: \$ 171,875

NetworkMaine's Strategic Plan (a summary of work to date)

Connecting Education, Libraries, State Government and Research to one ubiquitous network

Executive Summary

NetworkMaine's *Strategic Plan* is intended to provide an overview on the plan, design and implementation of a ubiquitous statewide network to be completed in phases as funding and opportunities present themselves. The deployment of this network will be an evolutionary, not revolutionary, process.

This network will be a fiber optic based network (in most cases) managed by a unit of the University of Maine System named NetworkMaine. The intent of NetworkMaine will be to provide K-20, libraries, state and local government, and research entities with a cost-effective solution to address advanced network services, high speed interconnectivity between network participants, and connectivity to both the commodity Internet and the national research and education network, Internet 2.

Implementation of this plan will take time, but as community anchor institutions we will help drive the expansion of broadband services into our communities by leveraging our combined need for bandwidth. As we negotiate new contracts for services, we will ensure that schools and libraries have the bandwidth they need to meet their educational and community service goals and that no school or library is left disadvantaged or without service. Through a collaborative effort with representatives from Maine Department of Education, The Maine State Library, The Office of Information Technology, The University of Maine System, The Executive Director of ConnectME and the Project Manager for Maine School & Library Network, this group has spent several months tailoring a plan to achieve the following goals:

1) Create an entity (See the Memorandum of Understanding under Appendix B) capable of supporting and managing a statewide telecommunications delivery system developed to support education, research, public service, government, and economic development.

2) For all qualified K-12 Schools & Public Access Libraries that choose to participate, provide services which could include but are not limited to;

- Internet Access
- Distance Education
- E-mail/Anti-Spam
- Content Filtering

Appendix A

- Internet 2 Access
- Hosting Services
- Record Retention
- Network Management
- Network Security
- Technical Support

3) Continue to capitalize on and apply for Federal eRate and State MTEAF money to subsidize the cost to operate and support NetworkMaine including but not limited to

- A. Administration
 - a) Executive Director
 - b) Business Manager
- B. Business Functions
 - a) Issue RFPs for services
 - b) Execute and manage contracts
 - c) Prepare E-Rate filings
 - d) Prepare MTEAF filings
- C. General Services
 - a) Service provider coordination
 - b) Training opportunities
 - c) Emerging technologies research
 - d) Online resources
 - e) Video resources
 - f) Marvel Database
 - g) Libraries Choosing not to Filter
 - h) Adult Education

4) Develop a statewide telecommunications delivery system to support education, research, public service, government, and economic development.

5) Provide open interfaces for connectivity to facilitate the exchange of government information among state agencies.

This strategic plan will address the rationale for the transition to NetworkMaine, an IP-based network, as well as the tasks needed to complete and support this transition.

The plan will include functional requirements for the network infrastructure, addressing the general and specific needs of end users as well as the different and common requirements of the network's diverse member groups of agencies and universities. Also addressed will be the needs of local government and school districts-entities that use NetworkMaine by choice, not mandate, for the benefits of participating in a statewide network.

Appendix A

In addition, this strategic plan will highlight policy issues that will be addressed:

- Rural telecommunications services,
- Network self-sustainability,
- Private/public sector exchange,
- Network address space,
- Competition in local service,
- Network security,
- Support for intergovernmental agencies

**Network Maine Council
Memorandum of Understanding**

I. NetworkMaine

A. Status

NetworkMaine is a unit of the University of Maine System (UMS) and shall report to its Chief Information Officer (CIO), who shall designate an employee to act as the NetworkMaine Executive Director.

B. Mission

NetworkMaine shall operate and manage a statewide telecommunications delivery system and services developed to support education, research, public service, government, and economic development. It will provide high-quality, cost-effective telecommunications and support services that meet participants' needs, and will operate in a secure, reliable and robust manner to maximizing Maine's investment in public-sector communication.

NetworkMaine shall act as the Maine School and Library (MSLN) consortium authority and will be responsible for making necessary certifications and for responding to USAC inquiries on behalf of the eligible consortium members during both pre- and post-commitment processes.

C. Responsibilities

- 1) Creates an operation plan
- 2) Creates an annual operation budget request for approval by the NetworkMaine Council
- 3) Will keep the NetworkMaine Council informed of NetworkMaine activities, and will report to the NetworkMaine Council at regular meetings and provide additional reports as requested.
- 4) Will remain informed about State information technology standards and policies in order to ensure NetworkMaine's compatibility with State standards and policies in the future.

Appendix B

- 5) Will take all steps possible to insure Federal E-Rate compliance in any work done impacting federal E-Rate application(s) on behalf of schools and libraries.
- 6) Will deliver high value services that support the effective use of technology in accomplishing Maine's research and education goals.
- 7) Will implement additional programs as designated within each sponsoring agency's Statement of Deliverables.

II. NetworkMaine Council

A. Purpose

NetworkMaine operates through a coordinating body referred to as the NetworkMaine Council (Council) and through signed Participant Participation Agreements or other contracts between the University of Maine System and organizations eligible to receive NetworkMaine Services

B. Membership

Members of the Council are the Maine Commissioner of Education, the Maine State Librarian, the Chief Information Officer for the State of Maine and the Chief Information Officer of the University of Maine System.

C. Sponsoring Agency Membership

- 1) The Council may approve the addition of sponsoring agencies
- 2) A sponsoring agency is defined as a state agency that has a client base of public K-12 schools, higher education institutions, government infrastructure or public libraries.
- 3) Additional organizations or state agencies may petition the current sponsors to become sponsoring agencies. All prospective sponsors must agree to the terms and conditions of the Memorandum of Understanding. Such petitions will be approved or declined by mutual agreement among current sponsors. Approved petitions will become active once the heads of the current and prospective sponsoring agencies sign an Addendum to this Memorandum of Understanding.

- 4) Sponsoring Agency Responsibilities
 - a. If allowed membership each sponsoring agency will appoint one staff member and two external representatives to the Council.
 - b. Each sponsoring agency will represent the needs, missions, and views of its constituents to the Council.
 - c. Each sponsoring agency will communicate the decisions and outcomes of Council meetings to its constituents.
 - d. Sponsoring agencies will share and communicate their positions on major state-level decisions.

D. Governance

- 1) The Council will be led by the core team of staff and constituents of sponsoring agencies.
- 2) The head of each sponsoring agency will select one staff member to serve on the council. Staff members will serve an indefinite term at the discretion of their respective agency head.
- 3) The Council will be chaired by a staff member or constituent of each sponsoring agency on an annual, rotation basis. A vice chair will also be selected to fulfill the duties of the chair in his or her absence.
- 4) The appointed representatives will serve a term of two years. During the initial year of the Council's operation, one appointment from each sponsoring Agency will be for a period of one year in order to set up a rotation of half of the appointed members each year.
- 5) The NetworkMaine Executive Director will serve as an ex-officio member of the Council.
- 6) The Council will conduct annual self assessments of the effectiveness of the Council with the assistance and input of the UMS CIO and Executive Director.

E. Duties

- 1) The primary function of the Council is to oversee planning and budgeting for the NetworkMaine infrastructure including

the technical support required for the future growth and success of programs sponsored by Council members.

- 2) The Council will review annual statements of deliverables for each sponsoring agency to ensure that these statements are consistent with the Council's objectives.
- 3) The Council will annually develop a set of performance measures derived from the statement of objectives and deliverables, and will evaluate and report on NetworkMaine's performance on each measure.
- 4) The Council will review and recommend the annual budget request(s) on behalf of NetworkMaine to the appropriate governing bodies and/or sponsoring agencies.
- 5) The Council will establish advisory groups or task forces as needed.
- 6) The Council will advise the UMS CIO in the selection of the Executive Director delegated to administer NetworkMaine.
- 7) The UMS CIO will consult with the Council for input into the annual performance evaluation of the Executive Director.
- 8) The Council will become and remain informed about state information technology standards and policies in order to make decisions that ensure NetworkMaine's compatibility with state standards and policies in the future.
- 9) The Council will interact with organizations that exist or are formed to serve the needs of specific groups of NetworkMaine clients.

F. Contractual Arrangements

- 1) Sponsoring agencies may maintain or establish a contractual relationship with NetworkMaine for the delivery of services and for projects funded directly by a sponsoring agency.
- 2) The Council may review all such contracts as part of its overall duties.

G. Miscellaneous

Appendix B

- 1) No amendment, consent, waiver of terms of this Memorandum of Understanding shall be binding unless made in writing and signed by the signatories indicated in Section II B above. Any such amendment, consent, or waiver shall be effective only in the specific instance and for the specific purpose given. The meeting of the NetworkMaine Council will be published on the NetworkMaine web site and open to the public, and all interested parties are encouraged to attend.

APPROVALS

For the Maine Department of Elementary and Secondary Education:

Name: Title:

Signature: Date:

For the Maine State Library:

Name: Title:

Signature: Date:

For the State of Maine:

Name: Title:

Signature: Date:

For the University of Maine System:

Name: Title:

Signature: Date:

MARVEL DATABASE USAGE

| | 2006-2007 | | 2007-2008 | | 2008-2009 | | |
|--------------|----------------|------------------|-----------------------|------------------|------------------|------------------|--------------|
| | Logins | Searches | Logins | Searches | Logins | Searches | |
| Jul | 20868 | 89856 | 20,015 | 75,141 | 21,420 | 84,907 | |
| Aug | 20619 | 69505 | 19,613 | 76,785 | 18,187 | 70,195 | |
| Sept | 65363 | 232694 | 61,982 | 256,374 | 65,731 | 291,641 | |
| Oct | 95877 | 366677 | 111,348 | 482,079 | 94,957 | 486,860 | |
| Nov | 86,067 | 359,163 | 101,107 | 435,398 | 87,902 | 477,053 | |
| Dec | 62,438 | 249,367 | 63,566 | 256,054 | 66,106 | 340,618 | |
| Jan | 73,579 | 283,059 | 72,818 | 277,663 | 122,258 | 274,198 | |
| Feb | 74,167 | 307,199 | 124,312 | 362,921 | 132,138 | 442,424 | |
| Mar | 95,281 | 417,553 | 149,028 | 425,013 | 177,550 | 601,929 | |
| Apr | 81,913 | 362,027 | 160,737 | 416,363 | 152,465 | 569,539 | |
| May | 68,613 | 257,736 | 108,767 | 282,898 | 123,272 | 361,732 | |
| Jun | 27,457 | 107,209 | 36,870 | 141,181 | | | |
| Total | 772,242 | 3,102,045 | 1,030,163 | 3,487,870 | 1,061,986 | 4,001,096 | |
| | | | Percent change | 33.4% | 12.4% | 3.1% | 14.7% |

MARVEL WEB SITE USAGE

| | 2006-2007 | 2007-2008 | 2008-2009 |
|--|-----------------------|----------------|----------------|
| | Hits | Hits | Hits |
| | 20,368 | 18,328 | 24,861 |
| | 21,208 | 20,012 | 21,540 |
| | 44,668 | 46,679 | 74,048 |
| | 69,838 | 71,803 | 88,523 |
| | 62,832 | 66,541 | 100,289 |
| | 55,321 | 50,915 | 79,323 |
| | 71,814 | 68,198 | 111,136 |
| | 55,789 | 54,361 | 96,215 |
| | 71,844 | 78,584 | 114,788 |
| | 44,479 | 67,429 | 87,859 |
| | 71,088 | 77,080 | 87,307 |
| | 30,030 | 50,748 | |
| | 619,279 | 670,678 | 885,889 |
| | Percent Change | 8.3% | 32.1% |

| | 2007 | 2008 | 2009 | 2010 |
|-----------------------------|------|------|------|------|
| Number of databases: | 49 | 52 | 52 | 54 |