

LOS ANGELES UNIFIED SCHOOL DISTRICT

SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE

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Consultants

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Timothy Popejoy

Bond Oversight Administrator

Perla Zitle

Bond Oversight Coordinator

RESOLUTION 2023-38

BOARD REPORT 134-23/24

RECOMMENDING BOARD APPROVAL FOR THE AMENDMENT OF THE INFORMATION TECHNOLOGY SERVICES STRATEGIC EXECUTION PLAN TO APPROVE THE NETWORK INFRASTRUCTURE MODERNIZATION PROJECT

WHEREAS, District Staff proposes that the Board of Education amend the Information Technology Services (ITS) Strategic Execution Plan (SEP) to approve the definition, allocate funds, and take the associated actions for the Network Infrastructure Modernization project, as described in Attachments A, B, and C; and

WHEREAS, District Staff proposes the following actions:

- Allocate \$11,666,950 bond funding to complete the Network Infrastructure Modernization project.
- Approve execution of the Network Infrastructure Modernization project; and

WHEREAS, On August 24, 2021, the Board of Education approved the update to the SUP to integrate Measure RR funding and priorities (Brd. Rpt. 027-21/22), the next phase of the District's Bond Program, which will modernize, build, and repair school facilities to improve student health, safety and educational quality. The Board's action approved the overarching goals and principles, funding sources, specific categories of need, and spending targets for the SUP. As proposed projects are developed, they are submitted to the Bond Oversight Committee (BOC) for consideration and the Board of Education for approval; and

WHEREAS, The SUP includes a spending target to address "Upgrade and Equip [schools] with 21st Century Technology." The intended outcome of the proposed project to be executed within this spending target is:

- Network Infrastructure Modernization project: This project will modernize the District's network infrastructure, which connects all schools and offices to the District's data center and Internet, by replacing equipment that will no longer be supported by the manufacturer with newer hardware that provides similar or greater functionality and capacity. \$11,666,950 Bond Funds (95%) and \$614,050 General Funds (5%)

RESOLUTION 2023-38

RECOMMENDING BOARD APPROVAL FOR THE AMENDMENT OF THE INFORMATION TECHNOLOGY SERVICES STRATEGIC EXECUTION PLAN TO APPROVE THE NETWORK INFRASTRUCTURE MODERNIZATION PROJECT

If approved, ITS will provide quarterly updates on the Project; and

WHEREAS, District Staff anticipates that the Board will amend the ITS SEP to define the new project described herein and allocate \$11,666,950 of Bond Program funding. This project will enable the District to continue providing the IT Infrastructure required for teaching, learning and daily operations. Furthermore, this project directly contributes to the achievement of the 2022-2026 Los Angeles Unified School District Strategic Plan goals of eliminating opportunity gaps (Pillar 1: Academic Excellence), creating welcoming learning environments (Pillar 2: Joy and Wellness), and modernizing infrastructure (Pillar 4: Operational Efficiency); and

WHEREAS, the District Office of General Counsel has reviewed the proposed Project and determined that it may proceed to the Bond Oversight Committee for its consideration for recommendation to the Board of Education.

WHEREAS, District Staff has concluded this proposed ITS SEP amendment will facilitate Los Angeles Unified’s ability to successfully complete the ITS SEP.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The School Construction Citizens’ Bond Oversight Committee recommends that the Board of Education adopt the amendment of the Information Technology Services Strategic Execution Plan to approve the IT Infrastructure to Support Learning Program listed above as described in Board Report 134-23/24, a copy of which is attached hereto in the form it was presented to the BOC and is incorporated herein by reference.
2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the Bond Oversight Committee’s website.
3. The District is directed to track the above recommendation and to report on the adoption, rejection, or pending status of the recommendations as provided in section 6.2 of the Charter and Memorandum of Understanding between the Bond Oversight Committee and the District.

ADOPTED on January 11, 2024, by the following vote:

AYES: 14

ABSTENTIONS: 0

NAYS: 0

ABSENCES: 0

/Margaret Fuentes/

Margaret Fuentes
Chair

/Michael Hamner/

D. Michael Hamner
Vice-Chair



Board of Education Report

File #: Rep-134-23/24, **Version:** 1

Amendment to the Information Technology Services Strategic Execution Plan to Approve the Network Infrastructure Modernization Project

January 23, 2024

Information Technology Services

Action Proposed:

Approve amendment of the Information Technology Services (ITS) Strategic Execution Plan (SEP) to approve the definition, allocate funds, and take the associated action for the Network Infrastructure Modernization project, as described in Attachments A, B, and C.

The proposed actions are as follows:

- Allocate \$11,666,950 bond funding to complete the Network Infrastructure Modernization project.
- Approve execution of the Network Infrastructure Modernization project.

Background:

On August 24, 2021, the Board of Education approved the update to the SUP to integrate Measure RR funding and priorities (Brd. Rpt. 027-21/22), the next phase of the District's Bond Program, which will modernize, build, and repair school facilities to improve student health, safety, and educational quality. The Board's action approved the overarching goals and principles, funding sources, specific categories of need, and spending targets for the SUP. As proposed projects are developed, they are submitted to the Bond Oversight Committee (BOC) for consideration and the Board of Education for approval.

The SUP includes a spending target to “Upgrade and Equip [schools] with 21st Century Technology.” The intended outcome of the proposed project to be executed within this spending targets is as follows:

- Network Infrastructure Modernization project: This project will modernize the District’s network infrastructure, which connects all schools and offices to the District’s data center and Internet, by replacing equipment that will no longer be supported by the manufacturer with newer hardware that provides similar or greater functionality and capacity. \$11,666,950 Bond Funds (95%) and \$614,050 General Funds (5%). December 2026 anticipated completion.

If approved, ITS will provide quarterly updates on the project.

Bond Oversight Committee Recommendations:

The School Construction Bond Citizens’ Oversight Committee (BOC), at its January 11, 2024 meeting, considered this item. Staff has concluded that this proposed SEP Amendment will facilitate the implementation of the ITS SEP, and therefore it will not adversely affect the District’s ability to successfully complete the ITS SEP.

Expected Outcomes:

Staff anticipates that the Board will amend the ITS SEP to define the new project described herein and allocate

\$11,666,950 of Bond Program funding. This project will enable the District to continue providing the stable IT Infrastructure required for teaching, learning and daily operations.

Furthermore, this project directly contributes to the achievement of the 2022-2026 Los Angeles Unified School District Strategic Plan goals of eliminating opportunity gaps (Pillar 1: Academic Excellence), creating welcoming learning environments (Pillar 2: Joy and Wellness), and modernizing infrastructure (Pillar 4: Operational Efficiency).

Board Options and Consequences:

Failure or delay of approval will postpone the execution and/or implementation of the proposed project and the associated benefits to the schools and students.

Policy Implications:

This action is consistent with the District’s long-term goal to address unmet school needs as described in Proposition BB and Measures K, R, Y, Q, and RR.

Budget Impact:

The proposed project has a total budget of \$12,281,000, consisting of \$11,666,950 of Bond Program funding and \$614,050 of General Funds. The bond funds will be allocated from the “Upgrade and Equip with 21st Century Technology” SUP categories of need.

Upon completion of the project, \$200,000 in new funds will be needed to maintain the new equipment deployed. These funds will be planned for and budgeted out of the hardware/software and E-Rate budgets.

Student Impact:

The proposed project has the following outcomes and benefits that impact students:

- Support anticipated future growth of high-performance student and teacher computing devices.
- Deliver technology infrastructure that contributes to a safe and healthy learning environment.

Equity Impact:

Component	Score	Score Rationale
Recognition	4	Modernization of the District’s network infrastructure provides improved and equal access to <u>all</u> students.
Resource Prioritization	4	Modernization of the District’s network infrastructure provides improved and equal access to <u>all</u> students.
Results	4	This modernization is required to maintain the District’s highly available network access in classrooms and on campuses, which directly contributes to eliminating opportunity gaps at District schools. Furthermore, this program contributes to other pillars and priorities of the 2022-2026 LAUSD Strategic Plan, including: Welcoming Learning Environments (Pillar 2: Joy and Wellness) and Modernize Infrastructure (Pillar 4: Operational Efficiency).
TOTAL	12	

Issues and Analysis:

As bandwidth to schools increases, the Network Infrastructure must also be increased. Based on current growth

projections, the network infrastructure will need up to 4 times its current capacity to keep pace with learning needs. Furthermore, the existing network infrastructure equipment is reaching the end of its useful life. The equipment was purchased and installed nearly 10 years ago and will reach the end-of-support from manufacturers. At that point, there will be limited options for replacement of failed equipment and no security updates to patch vulnerabilities, leaving the District at risk of attack. The existing network equipment is operating at its maximum capacity. Additional capacity cannot be added to the existing network equipment to meet the District's growth needs.

Attachments:

Attachment A - Project Definition

Attachment B - Bond Oversight Committee Resolution

Attachment C - Presentation Slide Deck

Previously adopted Board report(s) referenced:

- In the background [Board Rpt. 027-21/22](#)
<https://drive.google.com/file/d/1zFCTkt0vcebc2R7IQM_bPi64HQMLSQBQ/view?
dated: August 24, 2021.

Informatives:

None

Submitted:

12/1/23

RESPECTFULLY SUBMITTED,

APPROVED BY:

ALBERTO CARVALHO
Superintendent

PEDRO SALCIDO
Deputy Superintendent
Office of the Deputy Superintendent

REVIEWED BY:

APPROVED & PRESENTED BY:

DEVORA NAVERA REED
General Counsel

SOHEIL KATAL
Chief Information Officer
Information Technology Services

___ Approved as to form.

REVIEWED BY:

NOLBERTO DELGADILLO
Deputy Chief Business Officer, Finance
Office of the Chief Business Officer

___ Approved as to budget impact statement.



Information Technology Services Strategic Execution Plan Amendment

Project Definitions and Associated Actions

Attachment A – BOE #134-23/24

Program: School Network Infrastructure Modernization
Project: Network Infrastructure Modernization
Budget: \$12,281,000 total project budget: \$11,666,950 in Bond Funds and \$614,050 in General Funds

Introduction

As students increasingly rely on devices and online content for learning, the District's IT infrastructure must evolve accordingly. The network's availability, consistency, and high performance are crucial to our educational mission. To accommodate the growing number of student devices and the rising use of online applications both on campus and remotely, we must upgrade and refresh our Network Infrastructure.

The Network Infrastructure is the backbone of the District's network, linking all schools and offices to our data center and Cloud resources, and providing internet access for students, teachers, and staff. As schools require more bandwidth, there's a corresponding need to enhance the Network Infrastructure. With projected growth trends, our network infrastructure will need to expand fourfold to cater to evolving educational requirements.

Moreover, our existing network equipment is nearing its operational lifespan. Installed almost a decade ago, the first set of equipment is set to reach its end-of-support phase from manufacturers as early as June 2024. Once that happens, our options to replace malfunctioning equipment will be limited. It's also important to note that the current equipment is operating at full capacity, making it impossible to increase capacity to accommodate the District's expanding needs. Furthermore, without security updates to address vulnerabilities, the District becomes susceptible to cyber threats.

Scope

The project includes the following phases:

Phase	Scope
Phase 1: Node Modernization	<ul style="list-style-type: none">Replace WAN core routers and optical equipment at 4 nodes.
Phase 2: Data Center Router & Firewall Modernization	<ul style="list-style-type: none">Replace data center routers and switches at 2 data centers.Upgrade data center firewalls at 2 data centers.
Phase 3: Core Switches & WAN Router Modernization	<ul style="list-style-type: none">Upgrade core switches at 4 nodes.Upgrade WAN routers that connect to WAN service provider.



Information Technology Services Strategic Execution Plan Amendment Project Definitions and Associated Actions Attachment A – BOE #134-23/24

Stabilization & Closeout	<ul style="list-style-type: none">• Monitor & optimize performance.• Project closeout.• Update network documentation.
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Expected Outcomes

The Network Infrastructure Modernization Project will provide the following benefits and outcomes:

- Supports anticipated future growth of high-performance student and teacher digital learning needs.
- Delivers new network infrastructure equipment that will be supported by the manufacturer for the next 7-10 years.
- Improves space and power efficiency.
- Delivers a technology infrastructure that contributes to a safe and healthy learning environment.
- Installs firewalls with greater capacity to protect the internal District assets in the data centers.
- Ensures software updates for the network equipment will continue to be available to address any future security vulnerabilities identified in the products.
- Directly contributes to achievement of LAUSD 2022-2026 Strategic Plan goals to eliminate opportunity gaps (Pillar 1: Academic Excellence), create welcoming learning environments (Pillar 2: Joy and Wellness), and modernize infrastructure (Pillar 4: Operational Efficiency).

Schedule

The project will be completed by December 31, 2026.