



Executive Summary

PUC Schools Network

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Overview

PUC Schools develops and manages high quality charter schools. PUC Schools was founded on a belief that superior schools build superior communities.

This document provides a high level view of the network which supports the management, operations, and students of PUC Schools.

Other Documents

For more information on the network, see the following documents:

Document	Purpose
Network Listings.xls	Lists devices with function, location, and network addresses
PUC Schools Network Infrastructure (doc)	Describes network and infrastructure
PUCS Network logical (vsd)	Logical diagram of network
PUCS Network physical (vsd)	Physical diagram of network

PUC Schools Network

PUC Schools consists of two Administrative Offices and six to eight campuses spread out between Downtown Los Angeles and the San Fernando Valley. These sites are connected to each other through a service provided by Calltower. The Calltower service provides VOIP (voice phone service) and data communications between sites. The schools are connected to the Internet through firewalls and content filters to protect the network and the students.

Independent Sites

Most locations are configured as independent sites. They have their own network switches, servers, and internet connection. Functions of some sites are combined for better efficiency.

Each site is configured in a standard manner for ease of operation and maintenance.

Protecting Users

All sites have firewalls between the Internet and the site networks. The schools also have content filters to protect users from objectionable content.

Efficiency

Technical features such as virtualization are used where appropriate to reduce costs of equipment and support. Virtualization means that several "virtual servers" can share one physical device, reducing the amount of expensive hardware needed.

Schools and Locations

The individual schools are listed below. Several of them are co-located or close enough to share infrastructure.

School	Location
Community Charter Middle School	Community Charter Middle School PUC Education Complex 11500 Eldridge Avenue Lakeview Terrace, CA 91342
CALS Charter Middle School	CALS Charter Middle School 7350 North Figueroa Street Los Angeles, CA 90041
CALS Early College High School	CALS Early College High School 700 Wilshire Boulevard, 4th Floor Los Angeles, CA 90017
Lakeview Charter Academy	Lakeview Charter Academy 11465 Kagel Canyon Street Lakeview Terrace, CA 91342
Milagro Charter School	Milagro Charter School 1855 North Main Street Los Angeles, CA 90031
Community Charter Early College High School	Community Charter Early College High School PUC Education Complex 11500 Eldridge Avenue Lakeview Terrace, CA 91342
Excel Charter Academy	Excel Charter Academy 1855 North Main Street Los Angeles, CA 90031
Triumph Charter Academy	Triumph Charter Academy 919 Eighth Street San Fernando, CA 91340
Santa Rosa Charter Academy	Santa Rosa Charter Academy 7350 North Figueroa Street Los Angeles, CA 90041
Nueva Esperanza Charter Academy	Nueva Esperanza Charter Academy 1445 Celis Street San Fernando, CA 91340

Network Addressing

The PUC schools use class B or class C addressing schemes, depending on size and number of devices needed.

CALSHS, Triumph, Nueva Esperanza

The CALSHS, Triumph, and Nueva Esperanza sites each use a Class C address scheme. This gives each site a usable address space of 254 IP addresses.

PUC Valley Complex

The PUC Valley Complex includes the Lakeview, CCECHS, and CCMS sites. The network for these sites uses a Class B address scheme. This gives the sites a usable address space of 1778 IP addresses.

River District Center (Milagro, Excel)

The River District Center network uses a Class B address scheme. This gives the sites a usable address space of 1778 IP addresses.

CALS Charter Middle School (CALSMS)

The CALSMS network uses a Class B address scheme. This gives the sites a usable address space of 1778 IP addresses.

Administrative Offices

The PUC Schools administrative offices each use a Class C address scheme. This gives each site a usable address space of 254 IP addresses.

Devices and Students

Some network and school statistics are listed below.

Item	Number served
Total students	
Student-owned laptops	
School-owned laptops	
Staff	
Printers,	
Scanners	
Wireless access points	