SmartSchool Phase 3

May 9th, 2023

SmartSchool Bond Act

- Statewide bond act, approved in November 2014, provides for technology improvements in K-12 schools.
- Limited scope: Security, School Connectivity, Classroom Devices, Pre-K classroom construction, replacement of classroom trailers.
- $2 billion statewide (Niskayuna allocation was $**1,494,855)**
- Lengthy approval process.
- Funding provided by reimbursement by NYS, after project completion.

Niskayuna Previous Phases

Phase 1

- Replaced Camera Systems for video surveillance across all buildings
- Submitted in 2018 and completed in the beginning of 2019
- Cost was $487,000

Phase 2

- Replaced All Network Components (Switches, Firewall, Access Points)
- Completed in 2021
- $761,700

SmartSchools Phase 3

We will be replacing the Badge Access System for the district across all 9 buildings.

Current Badge Access System

- Andover Continuum (declared End-of-Life in 2018)
- Parts are still "available" through 3rd parties for repairs
- We cannot expand the system to meet the needs of the growing district

Request for Proposal

We performed an RFP for the replacement of the system with the following high level requirements:

- Replace the Management Application for Continuum
- Replace the Controllers on the existing 62 doors
- Re-Use the Door hardware as it is system-agnostic
- Re-Use existing cabling, so no construction is needed
- Provide 5 new doors that will be added in the Iroquois Expansion

Selection

We have selected Avigilon as the replacement system.   The advantages are:

- Integrated into our Camera System (same vendor)
- Ability to Automate new staff access
- Compatibility with existing badges
- Proposed Cost of $79,000

Selection

Districtwide Card Access Conversion						
NYSC	Qty	Manufacturer	Model	Description	Unit Sell	Ext. Sell
NYSC	1	Avigilon	AC-APP-64R-ENT2-6	Enterprise Web-Based PACS Hardware Appliance for 64 Readers v6	$5,955.67	$5,955.67
NYSC	5	Avigilon	AC-MER-CONT-LP1501	1-Door Intelligent Controller, 2 In, 2 Relay Outputs, PoE/PoE+ or 12Vdc, RS485	$648.36	$3,241.80
NYSC	8	Avigilon	AC-MER-CONT-LP1502	2-Door Intelligent Controller, 8 In, 4 Relay Outputs, 12-24Vdc, RS485	$1,220.24	$9,761.92
NYSC	1	Avigilon	AC-SW-LIC-16RCU-6-P	ACM 16 Reader Count Software License Upgrade v6	$804.59	$804.59
NYSC	1	Avigilon	AC-SW-LIC-BDGE-6-P	ACM Badging Application Software License v6, 1 per Appliance	$804.59	$804.59
NYSC	1	Avigilon	AC-SW-LIC-SQL-6-P	ACM Collaboration Software License for Microsoft SQL v6	$1,610.13	$1,610.13
NYSC	5	Bosch	DS160	Passive Infrared REX, 12-30Vdc @ 26mA, Surface Mount, Form C Contacts	$83.74	$418.70
NYSC	5	Bosch	TP160	Trim Plate for Mounting DS160 REX	$1.80	$9.00
NYSC	5	Functional Devices	RIBU1C	RIB Relay, 10A, SPDT, 10-30Vac/dc 120Vac Coil	$15.44	$77.20
NYSC	5	HID	910PTNNEK00000	multiCLASS SE RP15 Mullion Reader, iCLASS/Prox, Wiegand, PT, Black	$270.44	$1,352.20
NYSC	5	Leviton	41089-1WP	Surface Mount QuickPort Box, Plenum Rated, 1-Port, White	$2.36	$11.80
NYSC	5	Leviton	61110-RW6	eXtreme Cat 6 QuickPort Jack, White	$9.90	$49.50
NYSC	5	Tripp Lite	N201-001-OR	1ft Cat6 Gb Snagless Molded UTP Patch Cable, Orange	$4.16	$20.80
NYSC	5	Unity	1SC12124WKPP	12x12x4in Screw Cover Enc w/KO's and Perforated Back-Plate	$163.33	$816.65
FMV	57	Avigilon	AC-MER-CON-MR52-S3B	2-Reader Interface Module, Mag or Wiegand, 4-Reader OSDP, 8 In, 6 Relays Outputs	$779.59	$44,436.63
FMV	5	Nascom	DAY78G/ST-A	1 in. Recessed Door Contact, Wide-Gap, N.C. Loop	$13.55	$67.75
FMV	5	Nascom	DAY78G/ST-DBD	1 in. Recessed Door Contact with 2k Ohm Embedded Resistors, Wide-Gap, N.C. Loop	$19.64	$98.20

Timeline

May 2023	Draft Smart Schools Investment Plan (SSIP) presented to community and Board of Education.
May 2023	Submit Letter-of-Intent to NYS Office of Facilities Planning, for streamlined review.
May - June 2023	30-day comment period on draft plan.
June 2023	Final plan presented to Board of Education.
June 2023	SSIP submitted to NYS for approval.
Jan-Feb 2024	SSIP approved. (estimate)
March 2024	Work begins. (estimate)