El Camino College Compton Center
Technology Committee

Minutes
February 19, 2015
2:00pm

Present: George Luna, Dr. Rodney Murray, Rudy Ramos, David Simmons, Celia Valdez, Andree Valdry

Absent: Eduardo Estrella, Brent Kooiman, David Maruyama, Pamela Richardson

TracDat Training: Dr. Sevana Khadagholian, Dale Ueda

Guests: Dr. Keith Curry, CEO; Mr. Felipe Lopez, CBO; Mr. Nabeel Khatri, AT&T Technician; Mr. Loc Ta, Aruba Technician

Facilitator: Dr. Rodney Murray and Rudy Ramos

Recorder: Laura Atchison

I. **Welcome**

Dr. Murray thanked all who were able to attend. Dr. Murray turned the meeting over to Mr. Ramos to explain how this product will assist the District.

Reading of previous meeting minutes was dispensed.

Prior to going over the agenda, Mr. Ramos had everyone to introduce their selves.

II. Discussion/ Action

Step I

A. <u>CCCD Infrastructure and Wi Fi</u>

A closer look, resources needed, road map (process to get this), power point –analysis process in performing an assessment of the Campus networks. Mr. Lopez asked for Mr. Ramos to give a reason and a history as to what and why the District is adhering to this project.

It has been requested campus-wide to have Wi Fi by; students, staff, faculty and administrators.

1. Over-all view – Understand Resources

AT&T contracted assessments as to what is needed, current status of the campus, prevention of break-ins, and better view where the Campus stands today. Question is, "Do we have enough support, security; or do we know who will have access?"

2. Mr. Khatri, AT&T

AT&T conducted and comprehensive analysis of the technical infrastructure at the District.

a. Network Assessment – ex. Distance Education
   1). Purpose of the assessment
   2). Assessment Process
   3). Locations and Technology Review
   4). Results of the Assessment

Gave a summary and explained what needed to be replaced. He discussed about Wi Fi radio frequency working for other uses, where to implement equipment to work successful, and a booklet to assess access of the Wi Fi.

b. Security Analysis
   1). Purpose of the analysis is to prevent hackers
   2). Analysis Process
   3). High level findings
   4). Result of the analysis
      a). Recommendation – sign on
      b). Working on the goal to concentrate for the better usage of the Wi Fi

c. Equipment – Are they it current? It shows no network support. Discovered District equipment is out-of-date.

Step II

Mr. Loc Ta, Aruba

A. Proposal
   1. Core and Edge Upgrade
   2. Replace Routers – switch model
   3. Upgrade Security Device – internet fire wall edge
   4. Wireless/Wi Fi LAN Solution
   5. Cabling replace/IDF Upgrade – add new drops
   6. Yearly maintenance – supporting equipment in case hardware falling

Mr. Lopez stated regarding new buildings, it is better for supportive measure to prevent from re-doing the process. The Technology proposal covers what we have now. Mr. Ramos said add for down time. In replacing routers, patience is need. Dr. Murray suggested that we should select a time when we are least in packed. Mr. Lopez agreed and said the best time would be at the end of business day or weekends. This will be a long process; however, we must adjust.

B. Data Infrastructure
   1. Infrastructure Upgrade
   2. Core Upgrade – Nexus 7000
   3. Switch Replacements/Addition
   4. Replace or install Cabling Refresh/IDF's

C. Security
    1. Perimeter Upgrades
    2. Interior Additions
    3. Benefits

Palo Alto Networks looks at new threats and can pinpoint within 15 to 20 minutes. It makes it available; fire wall to prevent hackers that are a risk to our network. Its' job is to protect and safe guard our personal information; staff, students, faculty and administrations.

Mr. Simmons asked about the equipment being upgraded, will any money be given for trade-ins? More than likely money will be given.

Mr. Ramos stated multi steps are involved in the kay process. His staff will be working with AT&T; team up with go-to partner. The perimeter involve inside as well as outside the buildings. Mr. Simmons said the switch usually last 4 to 5 years dual 7010 system. Mr. Lopez said we must protect our own data. We must consider the best product available. Aruba Networks team serves many universities and colleges in California. An 800 page report was given to the District. He stated it is very important to push this project through. He will talk with the Budget/Planning Committee.

D. Campus Wi Fi Installation – Comprehensive Arula Wireless LAN Solution
    1. Over 180 Aruba AC rated access points
    2. Clear pass access control – security
    3. Airwave network management – triple access; what you monitor, can track down user

Mr. Ta, Aruba technician, gave an illustration on the importance in upgrading our equipment. It's liken to plumbing; must do top to bottom. Best for the future is from the ground up. Wi Fi turn over rate. The core upgrading was definite needed. Wireless requirement for education; compete with other colleges for their Wi Fi. He stated a heat map will be in place showing areas where to place AC access/

Mr. Ramos informed the Committee that another server is in place. His staff is in the training stage. He expressed the policy, usage, police it, maintenance; prevent downloads (illegally), and Wi Fi breaker.

COST BREAKDOWN	COST
Core Upgrade	$ 614, 270.00
Edge Switching	1,293,539.00
Routing	33,649.00
Security	373,629.00
Wireless	342,224.00
Cabling/IDF Upgrade	574,964.00
Maintenance (yearly fee)	163,439.00
Spare	90,412.00
TOTAL COST PROJECT	$ 3,486,125.00

(**Maintenance – security, need support service)