

**Peralta Community College District
 District Technology Committee Minutes
 April 8, 2022
 10:30 a.m. – 12:00 p.m.
 Via Microsoft Team**

*Antoine Mehouelley, Chief Technology & Information System – Chair
 Matthew Goldstein, President of Senate COA – Co-Chair*

COUNCIL MEMBERSHIP

Saurav Pudasaini <i>College of Alameda IT Rep (COA)</i>	Balamurali Sampathraj <i>Acting Director of College IT Services (Laney)</i>
Nathan Pellegrin <i>Director of Research and Planning (Merritt)</i>	Mark Swiencicki <i>PFT Rep</i>
Didem Ekici <i>Distance Ed Rep (District)</i>	Vincent Koo <i>Berkeley City College IT Rep (BCC)</i>
Patricia Rom <i>IT Rep (Merritt)</i>	Natalia Fedorova <i>PCS Rep</i>
Joseph Bay <i>Classified SEIU 1021 Rep (District)</i>	Mazin Saeed and Jiawen Wu <i>ASBCC Rep</i>
Adil Ahmed <i>Finance Rep (District)</i>	Violeta de Leon <i>Note-taker NON-VOTING MEMBER (District)</i>

Total Number of Members: 14

Amount Needed for Quorum: 8

In attendance:

- | | |
|--------------------------|--------------------|
| 1. Antoine Mehouelley | 7. Joseph Bay |
| 2. Saurav Pudasaini | 8. Mark Swiencicki |
| 3. Natalia Fedorova | 9. Jiawen Wu |
| 4. Nathan Pellegrin | 10. Mazin Saeed |
| 5. Vincent Koo | 11. Didem Ekici |
| 6. Balamurali Sampathraj | |
- Violeta de Leon – Note-taker NON-VOTING MEMBER (District)

Absent: Adil Ahmed, Matthew Goldstein, Patricia Rom

Guest: Gary Nordine and Victor Geisler – NetXperts
Bill Flanagan - Norstar

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
A. Call to Order			10:36 a.m.	A quorum was recognized	
B. Adoption of the Agenda			The agenda was adopted as presented.	Motion 1 st by Pellegrin, 2 nd . by Bay Motion passed unanimously	Approved agenda will be posted on the PBIM website
C. Approval of Minutes			The minutes for March 4 th , 2022 were reviewed.	Motion 1 st by Pellegrin, 2 nd by Bay Motion passed unanimously	Approved minutes will be posted on the PBIM website
D. Public Comment			N/A		
E. Committee/Council Reports (2 minutes each)			Berkeley City College Koo informed: <ul style="list-style-type: none"> BCC Tech Committee met on Thursday, 4/7. The meeting focused on District IT Master Plan Matrix, HyFlex pilot specifications, computer refresh plans, and purchases. 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<ul style="list-style-type: none"> • BCC HyFlex Task Force met on Thursday, 4/7. • BCC IT and AV met with construction team about the new BCC West Campus at 2118 Milvia Street. • Provided carts with laptops and Chromebooks for student use on campus per faculty requests. • Distributing laptops to faculty and staff. • Assisting staff and faculty on return-to-campus needs. • Submitting, and assisting on approved purchases funded by HEERF and other funds. • Assisted with ConexED implementation: student sign-in stations and waiting list displays. • Continuing on Network Infrastructure Upgrade Project. • Continuing on Security Camera Refresh Project. 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>College of Alameda Pudasaini informed:</p> <ul style="list-style-type: none"> • H (NCLA) Building Clock Update: Co-ordinating with Jason Lee the Project Manager and Novax Clock Support to get a Clock Monitoring System to have control over all the clocks in the building. All the clocks are synced with the network time server via Ethernet connection. • The Projector Installation project will be being again once the equipment arrives in H Building. They are expected to be delivered on Mid May. • Follett Bookstore in COA want to have a Dedicated Internet Access on site. This project is taking off with support of Chi, Daniel, Antoine, and Off Course COA IT. I will have more update on this on our next meeting. 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<ul style="list-style-type: none"> • The In Progress project: Network Refresh Project, Security Camera, Door Hardware Access Control, and the Student Services Computer Upgrade, Coordinating with District. COA IT is ready for all the support. • Besides our primary Task has been mostly Support: In person assistance, via phone, remote support, computer configuration, deployment, desktop & email long in issue, printer, and other network related issue. 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>Laney College Sampathraj informed:</p> <ul style="list-style-type: none"> • Continuing to meet for video surveillance project. • We are supporting the Door access hardware • We are supporting the roll out of conexED. • Laney bookstore infrastructure upgrade. • U.S. Bank acquired Union Bank so we are supporting the network transition. • Upgrading technology for Gateway to College Program. • Computer rollout for lab computers. • CTE will be having the annual open house on Saturday, April 23, 2022, 7 a.m. -2 p.m. 		
			<p>Merritt College Absent</p>		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>Distance Education Ekici informed:</p> <ul style="list-style-type: none"> • Currently, the DE committee is in the process of developing agreed upon definitions of online course modalities (such as asynchronous, fully online/in-person, on campus etc.) for course catalogues. Our goal is to bring some consistency and clarity in the course modalities for our students. • We are still waiting for the IT team and CVC to resolve the issue with IT Proxy integration in the phase 1 of CVC student exchange. CVC and Peralta IT team are currently working on it and we are hoping to continue with phase 2 as soon as the issue is resolved. • The second global Peralta Online Equity Conference that will be held on April 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>27, 28, 29. It will be a three-day conference again– with around 40 presentations, panels and workshops. Please register (it is FREE) and help us spread the word. Peralta Online Equity Conference Website: https://sites.google.com/view/peraltaequityconference/home?authuser=0 Conference Registration link: https://docs.google.com/forms/d/e/1FAIpQLSfcMjeT9A4d5oyVH0s4L3Uf7FRTtuNHVdL2C1f_z0lpcZcWg/viewform</p>		
			<p>Department of Marketing, Communication & Public Relations Park informed on behalf of Mark Johnson:</p> <ul style="list-style-type: none"> • New website update: www.peralta.edu - Reminder, new site launched at the end of February. 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<ul style="list-style-type: none"> a. Accessibility. We used Popetech from the state chancellor's office to identify accessibility issues and fix them. All the major accessibility problems we had with the old site no longer exist on the new site, which is great news. b. Search indexing. Google is indexing the site but the new site is not showing up at the top of search results, because the old site has 11 years' worth of inbound/outbound links making it score higher in Google's Page Rank algorithm. We need to decommission the old site at web.peralta.edu so the new site content gets priority in search results. We recommend decommissioning web.peralta.edu in June 2022, after the Spring 2022 semester concludes. As part of the decommissioning, we will redirect web Peralta to www Peralta (so people won't be able to access the 		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>old site any longer). Any concerns with that approach?</p> <p>c. Old site data. All content has been saved including 10s of thousands of PDFs and other outdated documents. If access to specific old content is desired, please let me (Mark Johnson) know so we can provide access via SharePoint (or some other district tool).</p> <p>d. Translations. We need translations for key pages, particularly for Spanish, Chinese, Tagalog, and Arabic. If there are college resources for translation services, please let Mark Johnson know. I've requested budget for translation services but don't know if we'll get any \$\$ for that service.</p> <ul style="list-style-type: none"> • PeopleSoft <p>a. recordings from the training sessions from March 28-30 have been shared with Huron for loading into Canvas</p>		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<ul style="list-style-type: none"> b. Manager Self Service (MSS) trainings are ongoing this week and next. c. Additional training sessions for faculty & classified professionals who missed during Spring Break are being planned with specific dates/times TBD d. Finance system training is on the horizon - stay tuned for more information • Semester Schedules. MCPR is working with the colleges to complete the PDF versions of the Summer/Fall semester schedules which will go online at https://www.peralta.edu/admissions/schedule-catalog and college websites hopefully today (Friday April 8). First cohort of early enrollment begins April 11 with open enrollment a week later on April 18. 		
			Office of Institutional Research - Department of Academic Affairs and Student Success		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			<p>Herrera informed:</p> <ul style="list-style-type: none"> The IR Office is in the process of upgrading the Informatica server and requesting connection from the new ETL server to Peoplesoft development and production databases. Current version of informatica tool we are using is outdated and not supported by Oracle so, we are upgrading informatica tool to latest version (from 9.6 to 10.4) The Districtwide Student Survey results are currently being analyzed, and we are hoping to have the Final Report by the end of April. The final report and survey findings will be shared with the Peralta Community and a copy of the report will also be added to the District IR webpage. 		
I. Carried-Over and New Items					
Network Infrastructure Presentation			Victor Geisler and Gary Nordine, NetXperts, made a presentation		

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
			regarding Network Infrastructure (attached)		
Cloud Phone Migration			Bill Flanagan, Norstar, made a presentation regarding Cloud Phone Migration (attached)		
Matrix – Prioritization of Technology Master Plan					Mehouelley encouraged colleges to work on the Matrix- Prioritization and present the draft at the next DTC meeting. Merritt Prioritization of Technology Project (attached)
PeopleSoft Updates Phase II and Phase III And IT Services updates	<i>In concert with college Technology Planning Committees, create a comprehensive technology plan</i>	Strengthen Accountability, Innovation, and Collaboration		Mehouelley informed the committee that Violeta de Leon, committee note-taker, would be sending out updates via email for items that were not reviewed during the DTC meeting.	<p>The following is the email that was sent on April 13.</p> <p>“Dear DTC Committee,</p> <p>Below are the bullet points that summarize the PeopleSoft and IT Services Updates that the committee was unable to discuss in the last DTC meeting on Friday, April 8th.</p> <ul style="list-style-type: none"> • ConeXED/SSO Integration: Implementation of single-sign-on

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I. Standing Items					
					<p>login for ConeXED</p> <ul style="list-style-type: none"> • New Help Desk Staff: IT Department welcomed a new staff member, Nicholas Ordonio • Apps/ERP Team: Working on the PeopleSoft Phase 2 Training Program • PeopleSoft HR module will go live on April 18th • PeopleSoft Finance module will go live on May 6th • Security Camera Refresh Project: Dispatch Office's video wall monitor installation has been completed • Laney Locker Rooms: Reviewing electronic access control systems

Agenda Item	Committee Goal	Strategic Plan Goal	Outcome	Action Items	Follow Up on Action Items
I. Standing Items					
					<p>for the new locker rooms</p> <ul style="list-style-type: none"> • Network Infrastructure Refresh Proposal: Campuses are reviewing final designs • March: 760 support tickets processed by I.T. Department. <p>Please do not hesitate to contact Antoine Mehouelley or Daniel Park with any questions you may have.</p> <p>Respectfully, Violeta de Leon”</p>
II. Adjournment			12:00 p.m.		
III. Next meeting			May 6, 2022		

District Wide Network Refresh / Upgrade

1. NetXperts history with District
2. PCCD Requested Solution Comparisons:
 - a) Meraki AP Solution
 - b) Cisco AP Solution
3. Sites – Scope and Benefits
 - DO (including Security & Voice/Flex EAs)
 - Laney
 - BCC
 - Merritt
 - COA
4. Merritt Cellular Boost (Verizon; T-Mobile; AT&T)
Note, this option is *separate* from the Network Refresh / Upgrade





Consultant Recommendations for:





SOCIETY OF
COMMUNICATIONS TECHNOLOGY
CONSULTANTS INTERNATIONAL

Vendor Independent Consultative Review



Today's Agenda: Peralta Community College District

- GARTNER Leaders
- Discovery-Needs Assessment
- Microsoft Phone System
- Zoom Phone
- Provider Selection Criteria
- The Short List
- Contact Center
- The Business Case/TCO-ROI Analysis
- Budgetary Pricing
- Q & A

Figure 1: Magic Quadrant for Unified Communications as a Service, Worldwide



Source: Gartner (October 2021)



Discovery - What we know so far...

- Peralta Community College District (PCCD) is a collaborative community of colleges comprised of Berkeley City College, College of Alameda, and Laney and Merritt colleges in Oakland, California
- Looking to move the institution forward in terms of advanced cloud-first technology and cost savings
- Facing challenges due to Covid-19 and \$18 million budget reduction



Discovery - What we know so far...

- Current State

- On-Premise Cisco Call Manager
- End of Life
- No longer under SMARTnet support – out of compliance
- 2,300 users
- Locations: Campuses in the San Francisco Bay Area
- Timeline: 2022-23
- Collaboration: Microsoft Teams
- Microsoft E3 Licenses (Teams Phone Requires A5 Expense \$3)
- AT&T Telco provider
- Handsets: Legacy Cisco phones



Discovery - What we know so far...

- **Considerations for New Solution**

- ✓ Move to cloud based Unified Communications – Simplification
- ✓ Easily configure, adopt, scale, and integrate
- ✓ Flexibility and Options
- ✓ Microsoft product consolidation
- ✓ Shift from capital expense to operational subscription expense



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Non Disclosure
For internal use only

Microsoft Teams

Nothing can stop a team.



The hub for teamwork in Microsoft 365

Invite everyone you work with to chat, meet, call, and collaborate all in one place, no matter where you are.



Chat from anywhere

Share your opinion, and your personality. Send gifs, stickers, and emojis in a group chat or in one-to-one messages.



Meet from anywhere

Instantly go from group chat to video conference with the touch of a button. Teams of 10 or 10,000 can meet in one place, no matter how many places they're in.

The hub for teamwork in Microsoft 365

Invite everyone you work with to chat, meet, call, and collaborate all in one place, no matter where you are.



Call from anywhere

Never yell “who just joined?!” ever again. Use Teams calling, Phone System, Calling Plan, or Direct Routing to take the stress out of conference calls



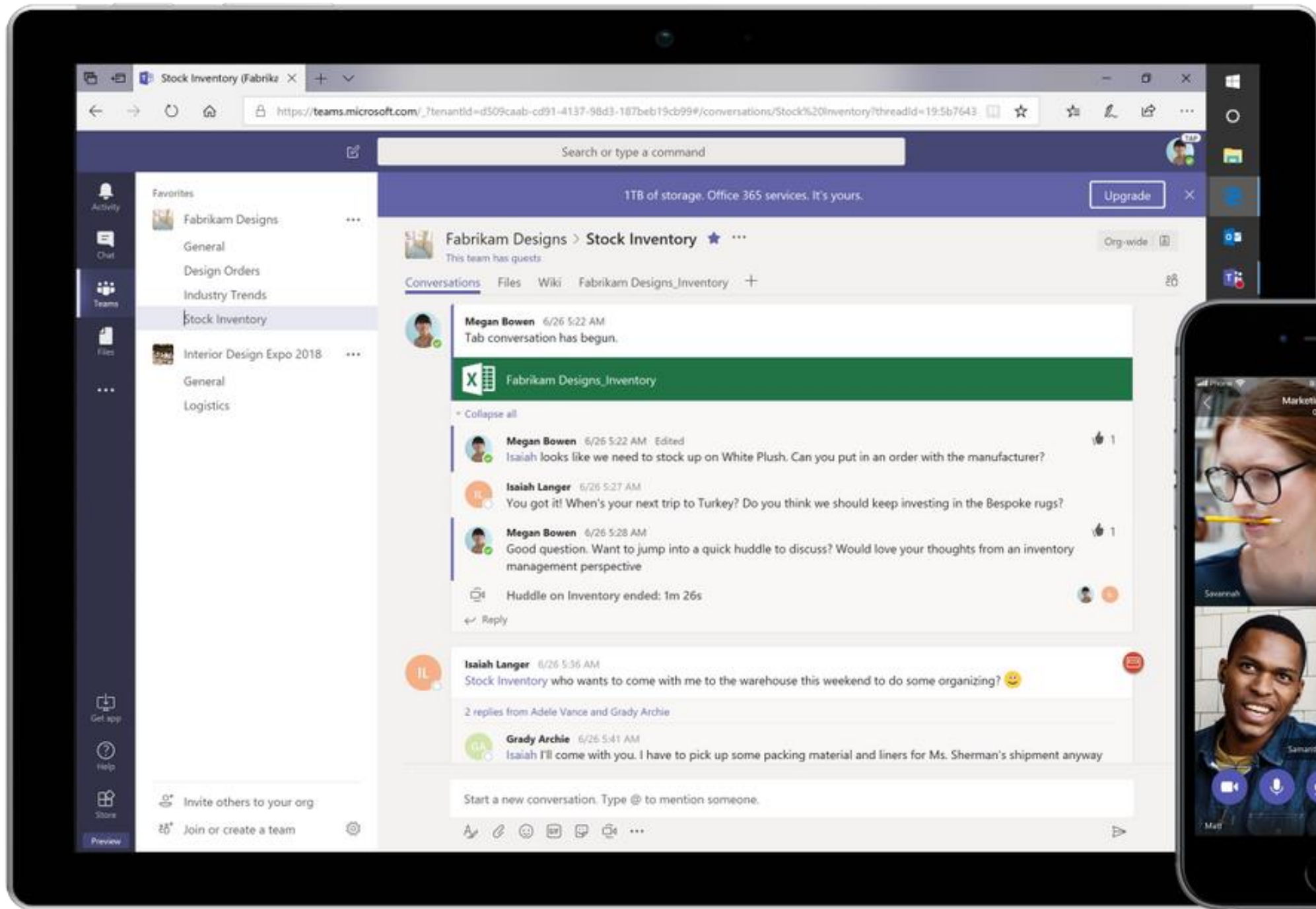
Collaborate from anywhere

Never do that frantic, searching-for-files thing ever again. In Teams you can access, share, and edit Word docs, PowerPoint, and Excel files in real time.



Call From Anywhere

Make clear and reliable calls. Combine Teams with Phone System, Calling Plan, and Direct Routing for business calling on a global scale.



Search or type a command

Activity

Chat

Teams

Assignments

Calendar

Calls

Files

...

Calls

Speed dial

Contacts

History

Voicemail

Your number: (717) 740-2860

1 2 3
ABC DEF

4 5 6
GHI JKL MNO

7 8 9
PQRS TUV WXYZ

* 0 #
+

Apps

Help

Call

Speed dial

Favorites

Alexander C. Pitzner
Associate VP and Chief Information ...
Available

Harrisburg University

Charles Palmer
Associate Professor of Computer an...
Busy

Keith R. Ramirez
Operations Manager
Available

Penny Weidner
Director of Assessment
In a call

A - OIS

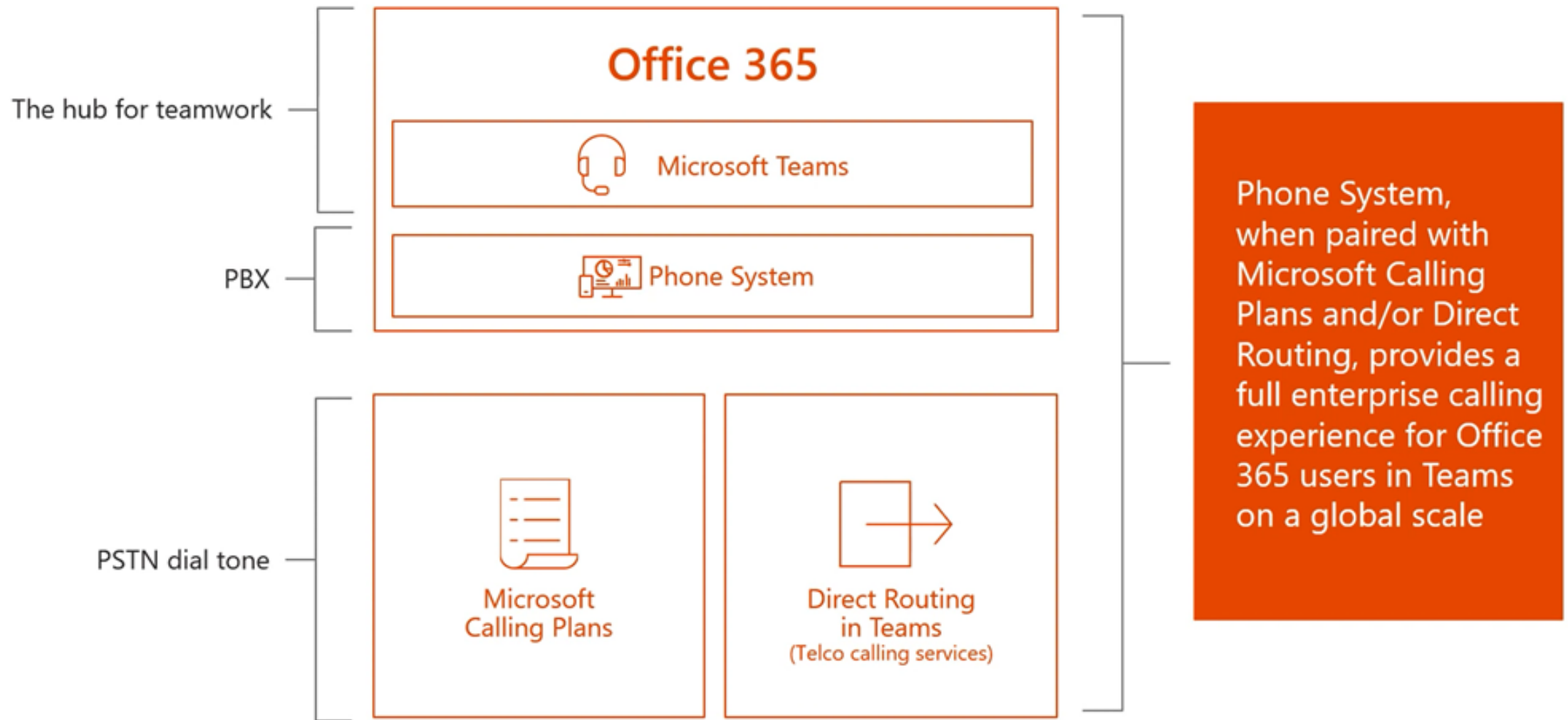
Courtney A. Smith

Keith Thomas
Change picture

- Available
- Set status message
- Saved
- Settings

Zoom (100%)

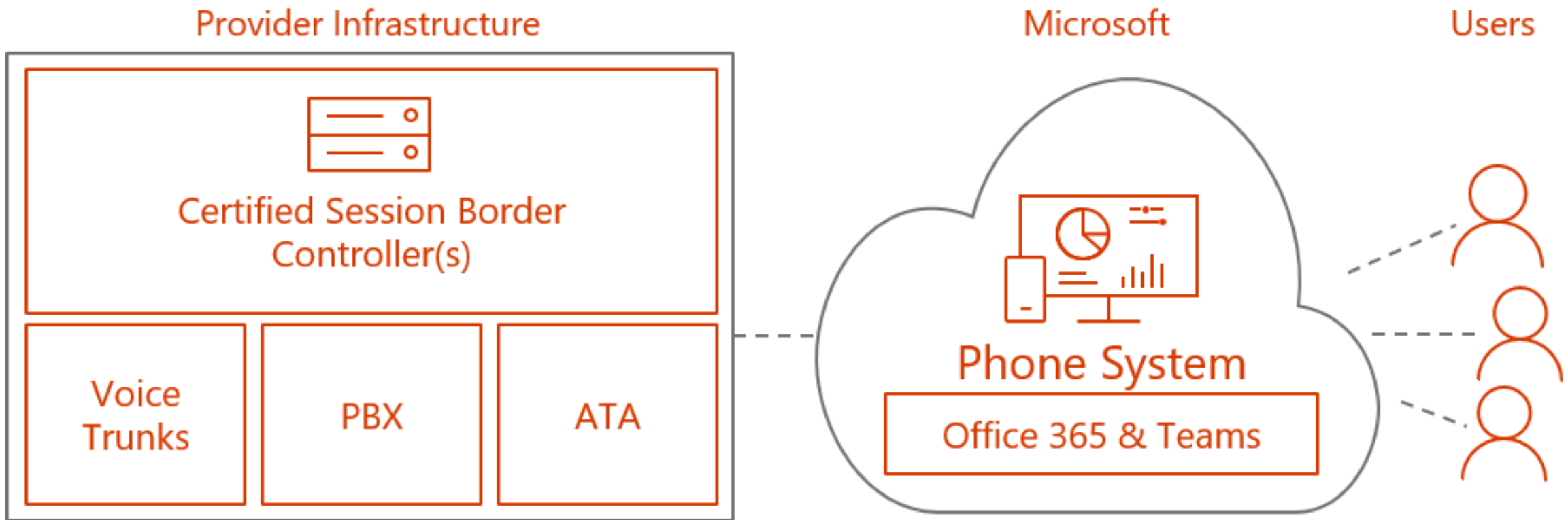
- Keyboard shortcuts
- About
- Check for updates
- Download the mobile app
- Sign out





Calling Plan pricing

	Requirements	Calling Plan Price ¹	Total Price ²
Office 365 E5	No additional requirements	Domestic: \$12.00 International: \$24.00	Domestic: \$12.00 International: \$24.00
Office 365 E3	Phone System (\$8.00)	Domestic: \$12.00 International: \$24.00	Domestic: \$20.00 International: \$32.00
Office 365 E1	Phone System (\$8.00)	Domestic: \$12.00 International: \$24.00	Domestic: \$20.00 International: \$32.00



For every work experience, there's a Microsoft Teams device





Certified for
Microsoft Teams



Poly CCX 400



Poly CCX 500



**Poly CCX 500
(No handset)**



Poly CCX 600



**Poly CCX 600
(No handset)**

Microsoft Teams Desk and Conferencing phones

 audiocodes

 CRESTRON

 poly



C450HD



Flex P100



Flex P110



CCX400



CCX500



CCX600



 CRESTRON

 poly





T55A



T56A/58A



VP59



Flex UC-M100



Trio 8800



CP960



Why IT Leaders Are Moving To Cloud

Op Ex vs. Cap Ex

Improved Security & Disaster Recovery

Collaboration & Mobility

Eliminate Costly Telco Circuits

Limited Maintenance & Admin Required

Provides Global Reach





The Short List

Microsoft

- 8x8
- Ring Central

Zoom

JUNE 19, 2018

NEW YORK STOCK EXCHANGE

NYSE OPENING BELL

EGHT
LISTED
NYSE

8x8

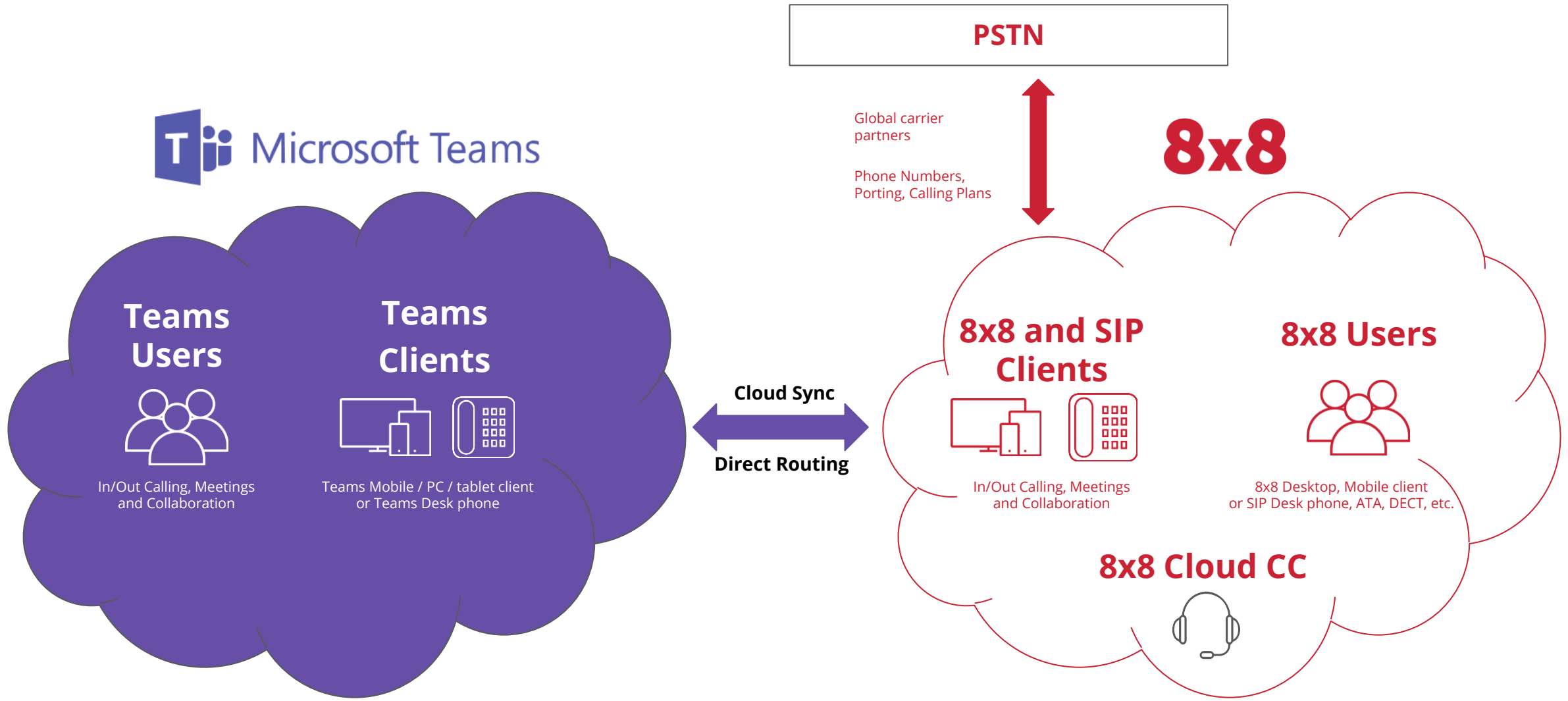
EGHT
LISTED
NYSE



NEW YORK STOCK EXCHANGE



What is 8x8 Voice for Microsoft Teams?



RNG
LISTED
NYSE

RingCentral

RNG
LISTED
NYSE

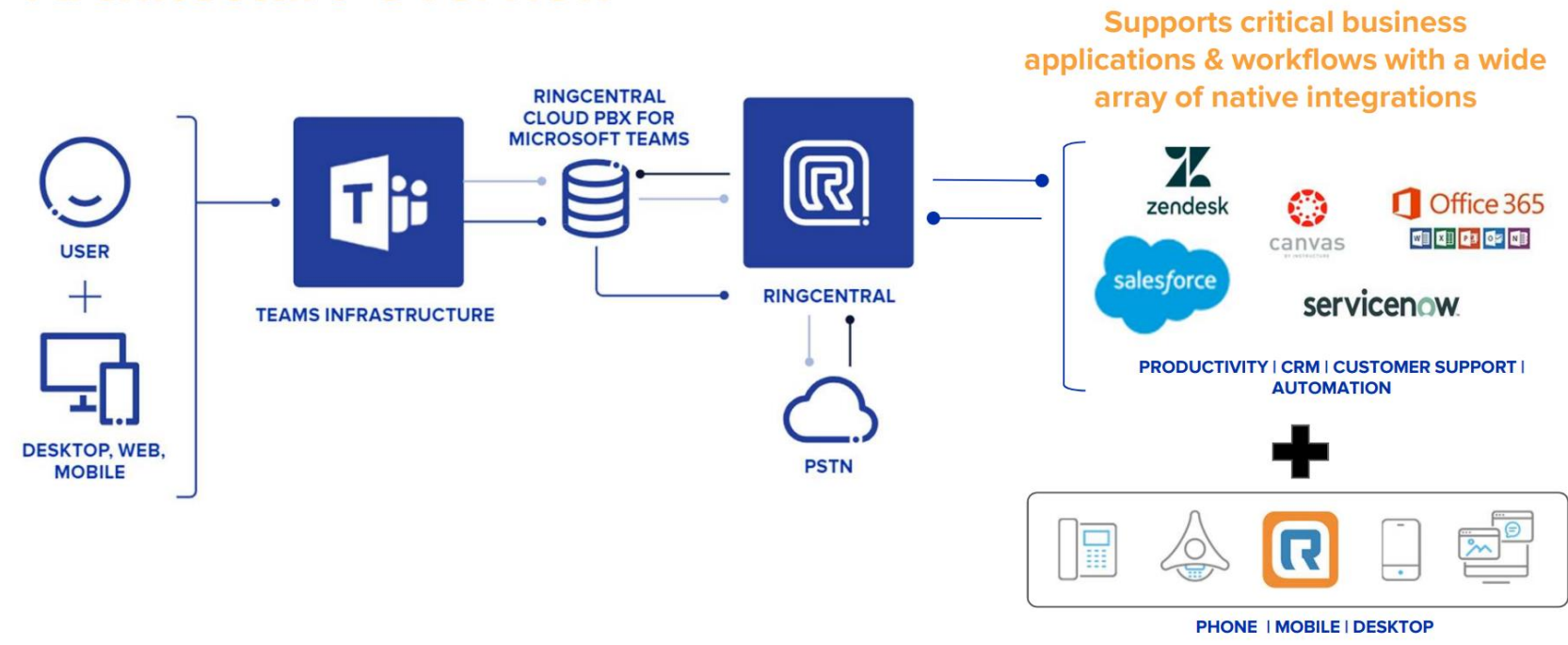


Elevate your business

RN
LIST

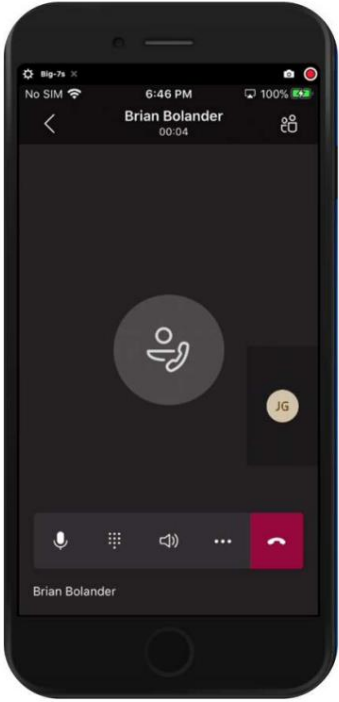
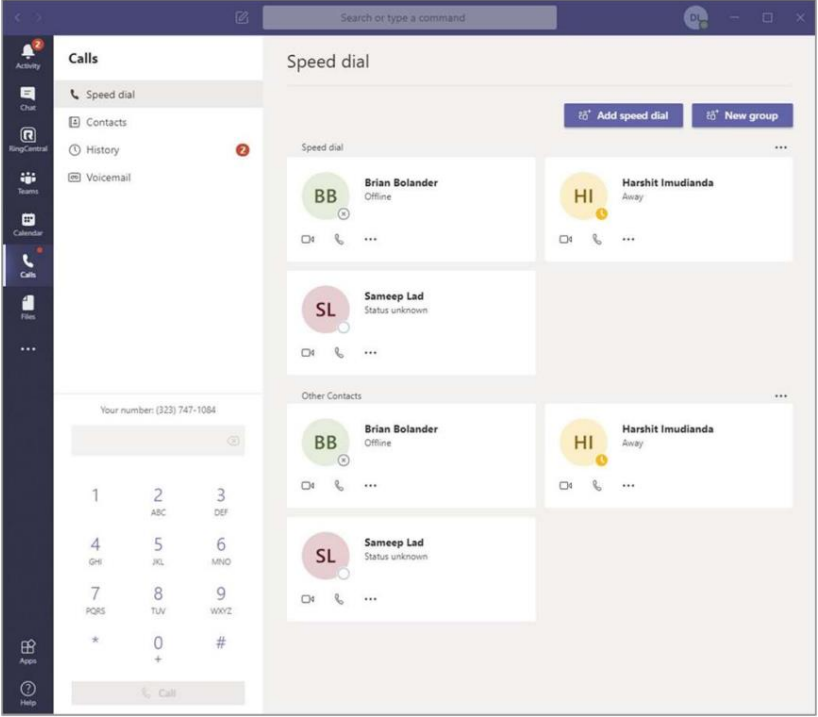
RingCentral Cloud PBX for Microsoft Teams

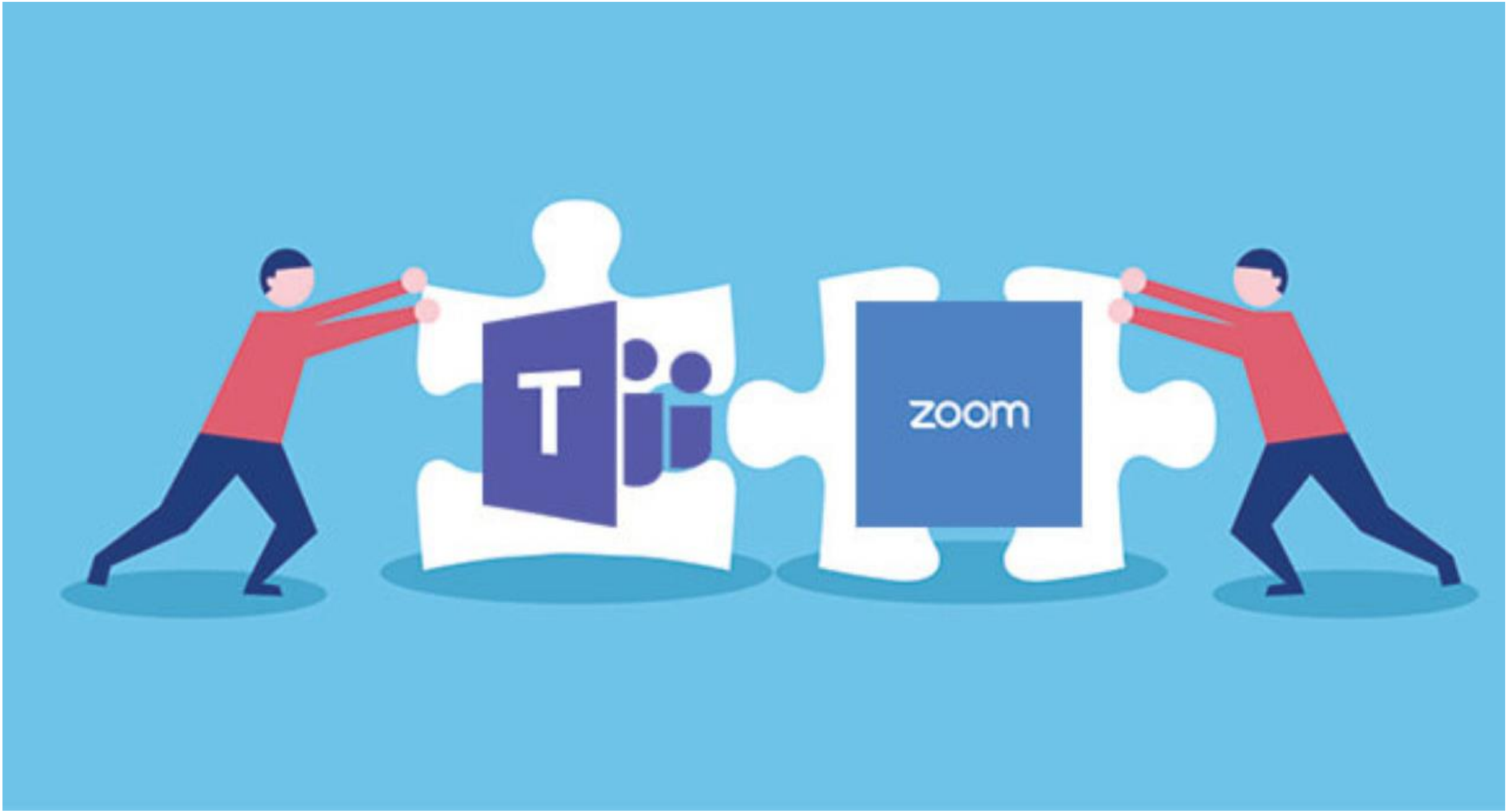
Architecture Overview



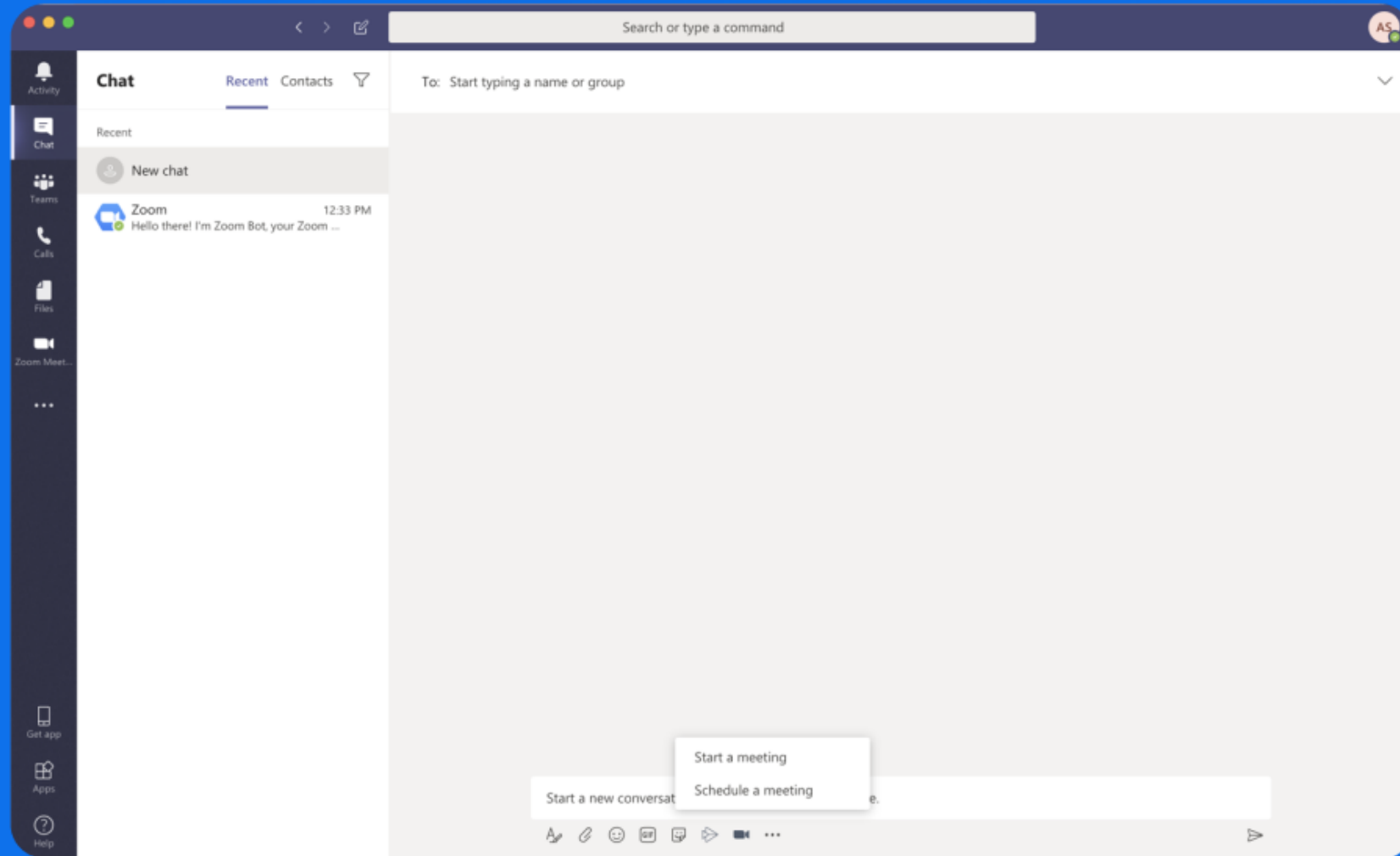
Supports critical business applications & workflows with a wide array of native integrations

RingCentral Cloud PBX for Teams





Start a Zoom meeting with team members



Search Contacts and Make Calls

Carly



CS

Carly Shannon

Home: 213-621-0002 - Click to Call



1

2

3

ABC

DEF

4

5

6

GHI

JKL

MNO

7

8

9

PQRS

TUV

WXYZ

*

0

#

+



ZOOM

(973) 555-9999



Decline



Accept

Decline or Answer
Incoming Calls

Zoom Chat Meetings Phone About

Activity Chat Teams Zoom Calendar Files ... Apps Help

All History

+18887990125	03/08/21
+18887990125	05:21 pm
Megan	03/08/21
803	04:10 pm

Megan

Megan

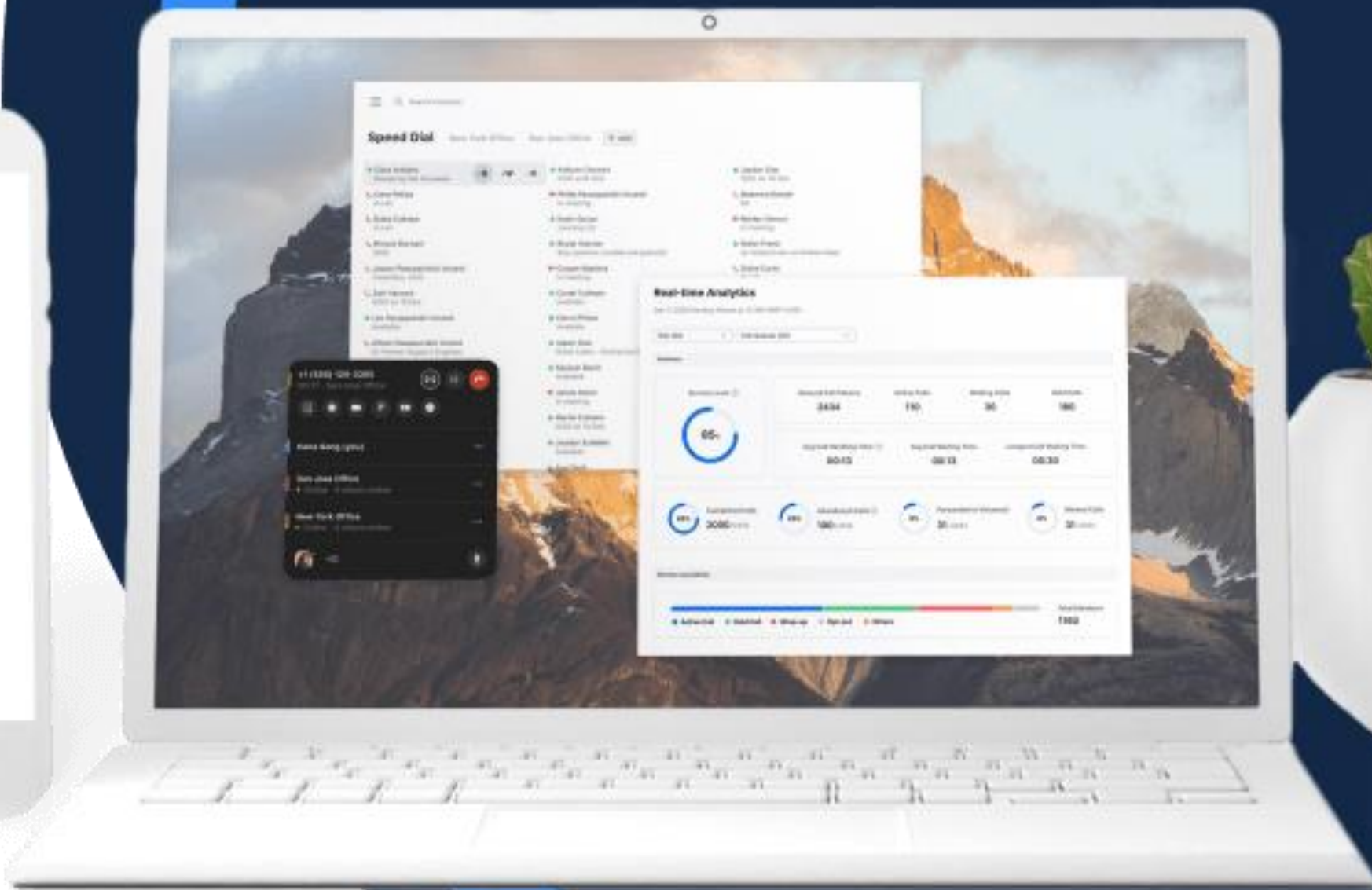
1 2 ABC 3 DEF

4 GHI 5 JKL 6 MNO

7 PQRS 8 TUV 9 WXYZ

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Call

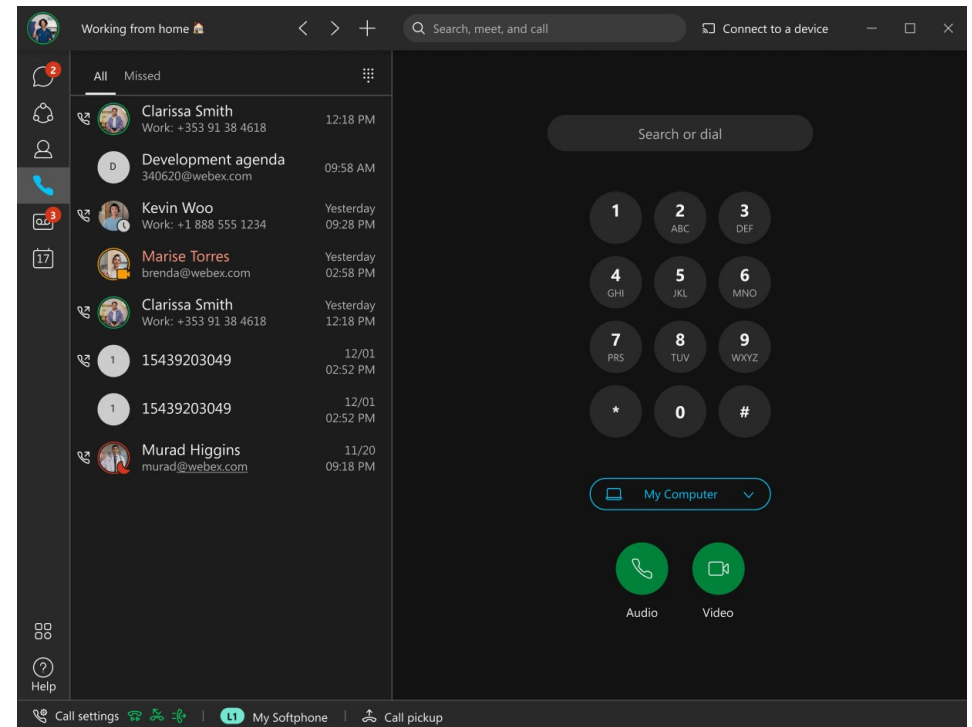


zoomphone



Powerful cloud calling features

Cover all the bases with merging, call waiting, holding, forwarding, do not disturb, visual voicemail, and more.



Microsoft Teams + Webex Calling

Launch Webex-enhanced voice and video calls from Microsoft Teams.

Call / Search Input

Enter a number, SIP address or type a name to search for an Azure AD/Outlook contact.

Dial Tab

Access dialpad, contact search and speed dials

Contact Search

Search for personal and corporate contacts

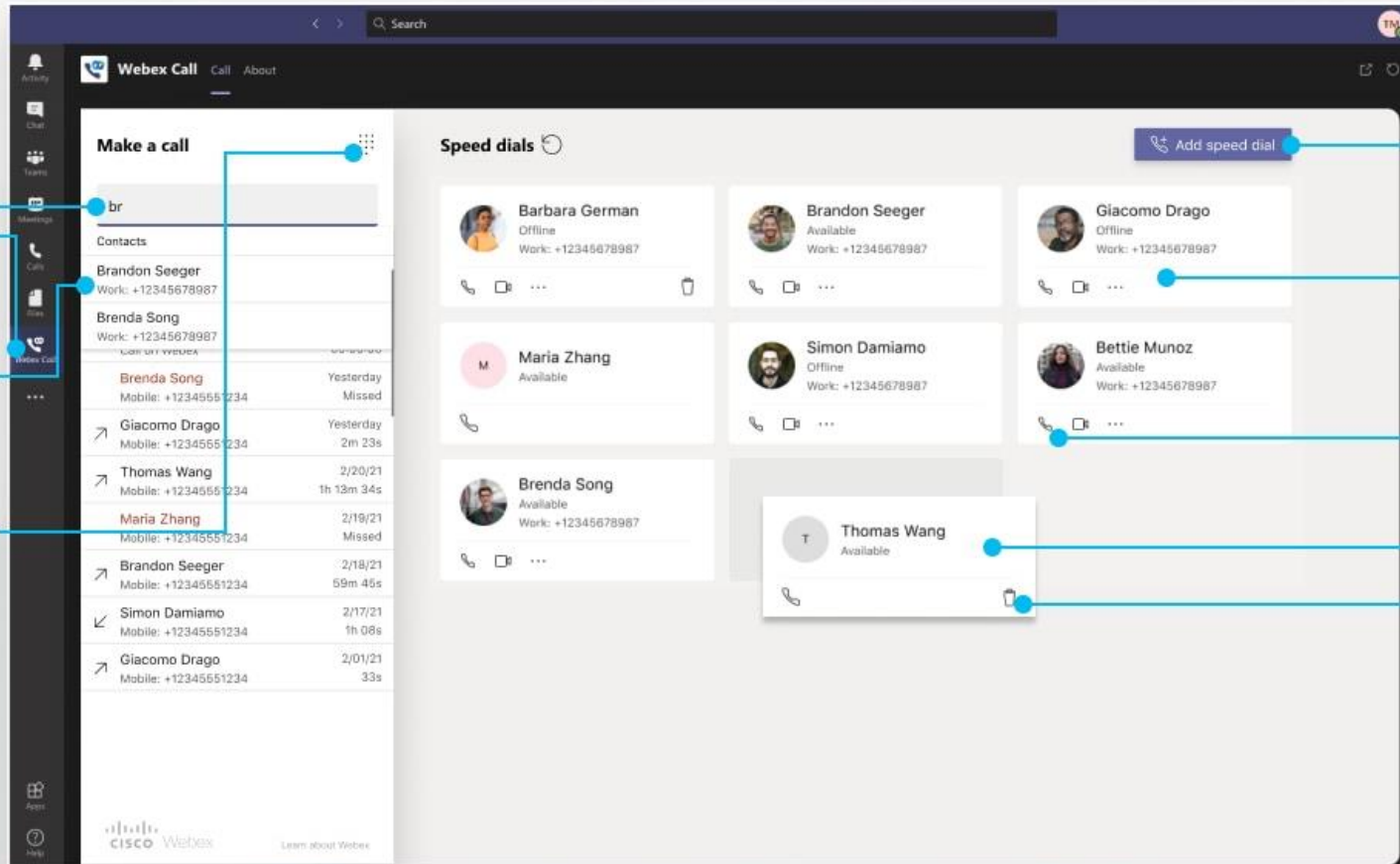
Dialpad

Click digits to key in numeric dial destination



Call Buttons

Dial a number or SIP address using audio or video



Add speed dial

Click to add up to 25 speed dial cards

Speed dial

Pin frequent contacts as speed dials for easy access.

Call

Select number and call contact

Reorder

Drag and drop cards to organize them

Delete

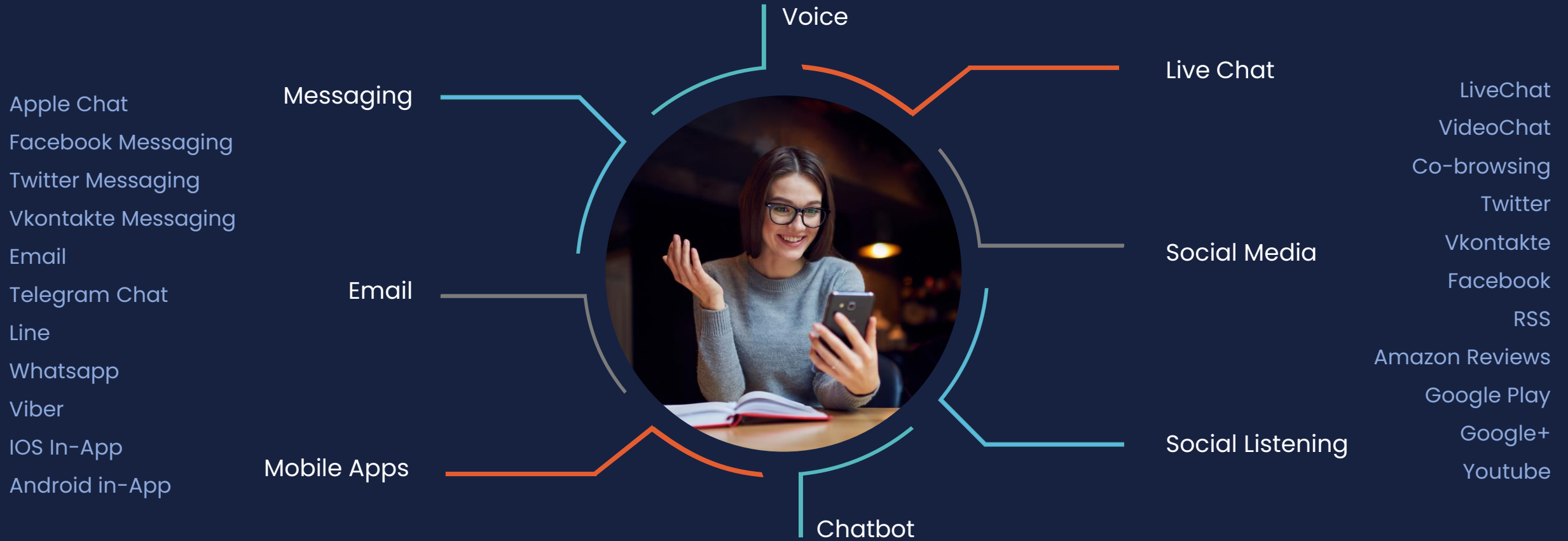
Hover over the card and click delete icon to remove speed dial



CUSTOMER EXPERIENCE

Omnichannel

Engage with your customers in any channel of their choice



powered by 

talkdesk

Thank You



Previous Projects with PCCD

- Network / Voice / Security Refreshes for DO; BCC; COA; Merritt; Laney, and satellite offices
- Azure security (Firepower) and load balancers
- Remote VPN migration to AnyConnect from Fortigate
- ISE Authentication installation
- Merritt Police / Blue phone project
- Merritt Fire Alarm assessment (and repairs)
- Cabling; Fiber; Low voltage work at all campuses
- GigaMAN AT&T migration to main network (saving \$18K per month)
- Laney Smart Classrooms / Smart Locks phases 1 & 2
- Network / Wireless Installation for new COA *Liberal Arts* building
- General on-going network support for PCCD leveraging senior CCNP & CCIE level engineers
- Technical Site surveys and Recommendations

Outreach and Scholarship / Educational Support

- Peralta Colleges Foundation
- Hiring of PCCD students/grads, both as Employees and Interns
- Use of SLBEs





NETXPERTS INC.
All Net, All the Time

NetXperts Inc.
1777 Botelho Drive
Suite 102
Walnut Creek, CA 94596
925-806-0800



Per Site Totals

SLBE Breakdown
(Percentages exclude Shipping/Tax)

Site	Cost before Tax / Shipping	Sales Tax & Shipping	Site Totals	SLBE %	SLBE \$ (materials + labor)
Laney	\$1,085,767.02	\$66,147.74	\$ 1,151,914.76	27.4%	\$298,004.77
Security EA	\$923,017.62	\$0.00	\$923,017.62	0.0%	\$0.00
District Office	\$1,950,891.08	\$118,675.83	\$ 2,069,566.91	24.6%	\$480,038.67
Berkely City College	\$1,387,037.37	\$176,069.67	\$ 1,563,107.04	26.0%	\$360,390.92
College of Alameda	\$69,972.31	\$2,740.15	\$ 72,712.46	40.5%	\$28,700.00
Flex EA, and Voice Equipment	\$663,909.84	\$26,728.01	\$ 690,637.85	71.5%	\$477,649.57
Merritt College	\$356,498.62	\$19,784.59	\$ 376,283.21	34.6%	\$123,383.46
FCCC College Buys Fee 2%	\$128,741.88	\$0.00	\$ 128,741.88	0.0%	\$0.00
Totals	\$6,565,835.74	\$410,145.98	\$ 6,975,981.73	26.9%	\$1,768,167.40
Project Total Cost (incl. SLBE)		\$ 6,975,981.73			

Recurring Costs	Annual Amount	When
Under current program	\$210K annually	Beginning in Aug. 2022
Under new program, beginning on year 6	~ \$300K annually For years 6 - 10	Beginning years 6 through 10

Meraki AP Solution



Cisco AP Solution with Controllers



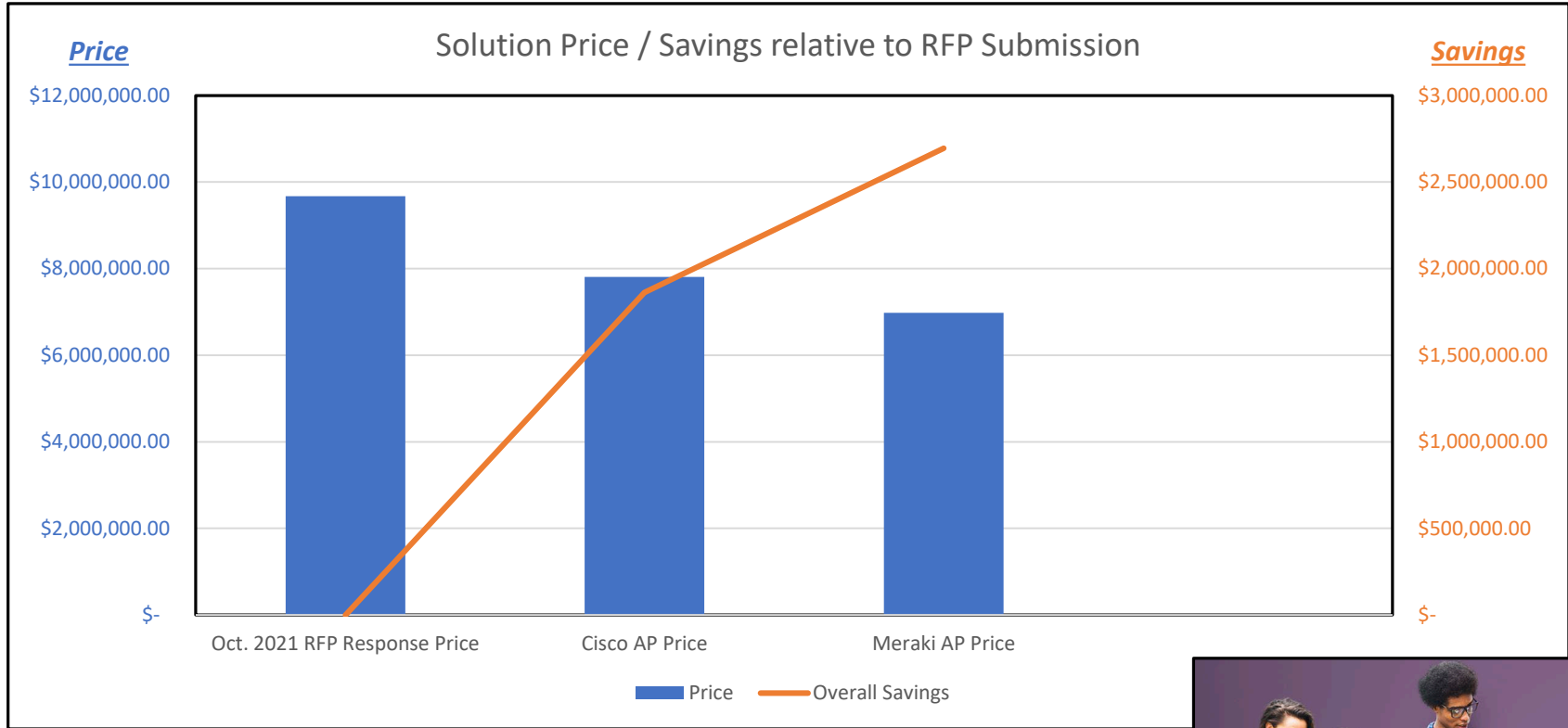
Per Site Totals

SLBE Breakdown
(Percentages exclude Shipping/Tax)

Site	Cost before Tax / Shipping	Sales Tax & Shipping	Site Totals	SLBE %	SLBE \$ (materials + labor)
Laney	\$1,146,334.29	\$73,426.42	\$ 1,219,760.71	26.8%	\$307,009.82
Security EA	\$1,204,359.48	\$0.00	\$ 1,204,359.48	0.0%	\$0.00
District Office	\$2,257,142.85	\$144,044.64	\$ 2,401,187.49	22.0%	\$496,675.09
Berkely City College	\$1,446,999.03	\$182,028.84	\$ 1,629,027.87	26.2%	\$378,586.68
College of Alameda	\$78,685.46	\$2,740.15	\$ 81,425.61	36.5%	\$28,700.00
Flex EA, and Voice Equipment	\$710,485.37	\$26,728.01	\$ 737,213.38	73.3%	\$520,485.37
Merritt College	\$370,227.76	\$20,389.58	\$ 390,617.34	33.3%	\$123,383.46
FCCC College Buys Fee 2%	\$144,284.68	\$0.00	\$ 144,284.68	0.0%	\$0.00
Totals	\$7,358,518.92	\$449,357.64	\$ 7,807,876.56	25.2%	\$1,854,840.42
Project Total Cost (incl. SLBE)		\$	7,807,876.56		



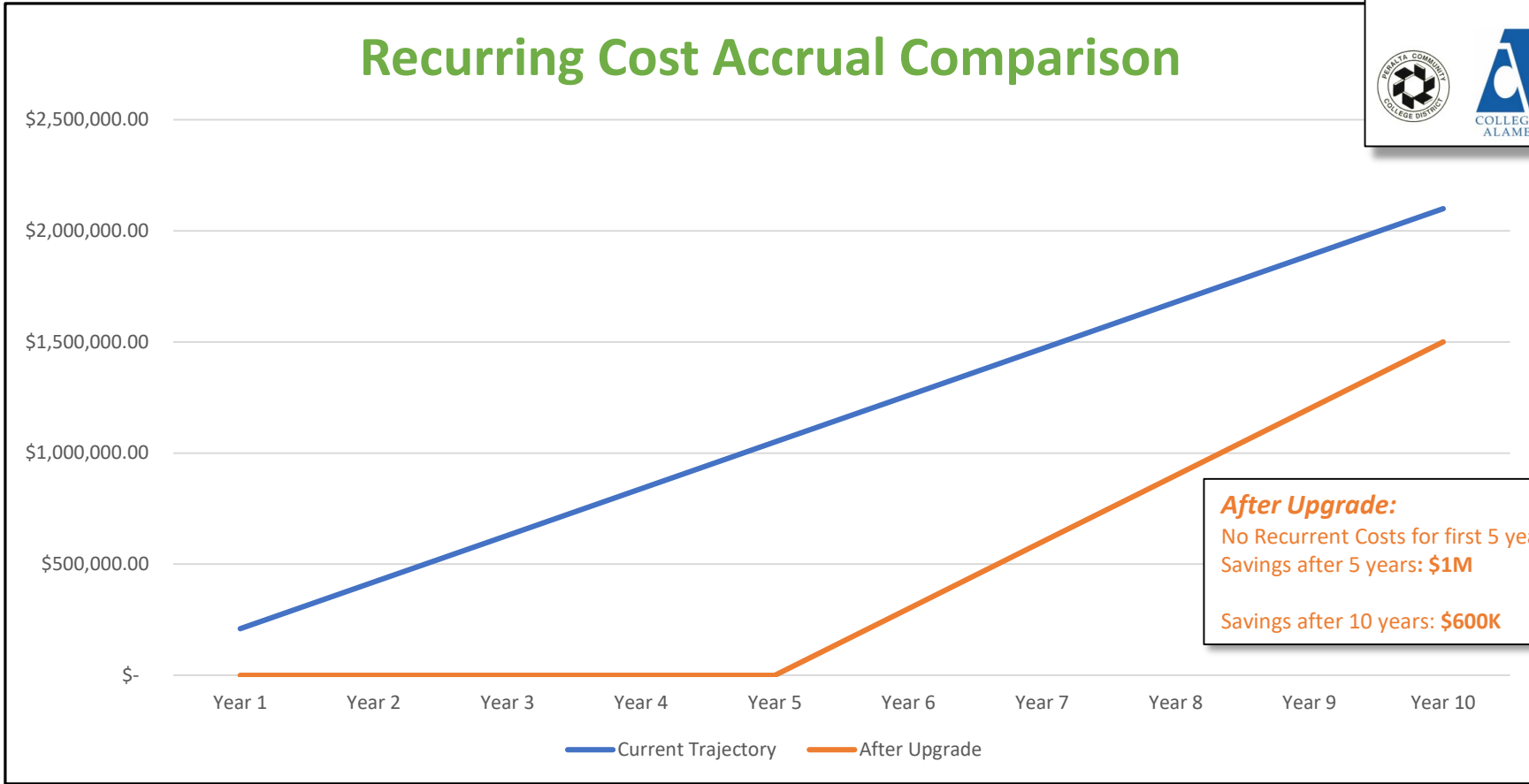
Upfront Solution Price and Savings



	Price	Overall Savings
Oct. 2021 RFP Response Price	\$ 9,670,750.00	\$ -
Cisco AP Solution Price	\$ 7,807,876.56	\$ 1,862,873.44
Meraki AP Solution Price	\$ 6,975,981.73	\$ 2,694,768.27



Recurring Cost Accrual Comparison



After Upgrade:
No Recurrent Costs for first 5 years
Savings after 5 years: **\$1M**
Savings after 10 years: **\$600K**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Current Trajectory	\$ 210,000.00	\$ 420,000.00	\$ 630,000.00	\$ 840,000.00	\$ 1,050,000.00	\$ 1,260,000.00	\$ 1,470,000.00	\$ 1,680,000.00	\$ 1,890,000.00	\$ 2,100,000.00
After Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000.00	\$ 600,000.00	\$ 900,000.00	\$ 1,200,000.00	\$ 1,500,000.00

District Office (Inc. Security & Flex EAs) – Scope of PCCD Request



Hardware - Network

- Network Switches
- Firewalls
- Wireless Access Points (Wi-Fi)
- 30-minute Power Backup System

Hardware - Cabling

- Category 6A Cable
- Fiber Optics
- Cabinets

Software / Licenses

- Cyber Security (from Security EA)
 - Intrusion Prevention
 - Identity Services Engine
 - Malware
 - Umbrella

Professional Services

- Project Management
- Cabling / Fiber Techs
- Engineering – Cisco CCIEs and CCNPs
- SLBEs

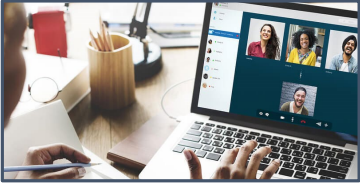
- Voice (from Flex EA)
 - VoIP Gateways
 - Routers
 - WLAN

- Licenses



Peralta Community College District Office – Business Objectives



Business Objectives	Current Infrastructure	Upgraded Infrastructure requested by PCCD
<p>Remote / Virtual meetings</p> 	<ul style="list-style-type: none"> ● As the staff technology needs become more sophisticated, the current network infrastructure may cause slowness and intermittent disconnections / pixelation in video, audio and conference calls. Virtual meetings will also experience quality degradation. ● Most of the existing equipment is at or nearing "End of Life" which means that obtaining support in an outage may be difficult. 	<ul style="list-style-type: none"> ● Upgraded infrastructure provides a secure remote login for staff. ● Provides exceptional video and audio performance enabling high quality remote access to the district office. ● Upgrade will augment ADA compliance and accommodation
<p>SMART Staff Meeting Rooms</p>	<p>Current infrastructure will be less equipped to support the technological tools of today and the future, including new technology staples such as:</p> <ul style="list-style-type: none"> ● Interactive whiteboards ● Cameras ● Tablets and Applications 	<p>Upgraded infrastructure provides:</p> <ul style="list-style-type: none"> ● Robust infrastructure to support the latest meeting room tools and technologies. ● Enhances the meeting efficiency and effectiveness. ● Ability to support Virtual Reality Apps
<p>Collaboration Tools</p>	<p>Limited bandwidth, creating challenges for:</p> <ul style="list-style-type: none"> ● Cloud applications ● Streaming video and campus resources. ● Can lead to pixelation during peak use. ● User Experience will be impacted. 	<p>Improves:</p> <ul style="list-style-type: none"> ● Application interaction ● Video quality w/ higher throughput: 4K; 8K ● High Def. Audio ● Meeting rooms: WebEx; Teams; Google Meet; Zoom.



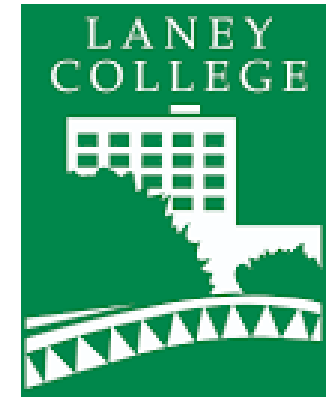
Peralta Community College District Office – Business Objectives



Business Objectives	Current Infrastructure	Upgraded Infrastructure Requested by PCCD
Security Management	<p>Current infrastructure:</p> <ul style="list-style-type: none"> • Aligned with Security threats from 5+ years ago but needs upgrading to protect against more sophisticated security threats, originating from both domestic and abroad. • More sophisticated ransomware is a big concern with respect to current infrastructure. Attacks can cause a loss of sensitive data, and a hit to the school's reputation. 	<p>New Infrastructure:</p> <ul style="list-style-type: none"> • End-user monitoring • Anti-malware • Identity Service Engineer • Umbrella • Intrusion Prevention • Malware / Phishing prevention • Augmented protection against malicious admins and ransomware.
Wireless Coverage	<ul style="list-style-type: none"> • Current coverage consists of a limited number of outdated Access Points. • The coverage is limited and is no longer reliable when a high number of users are engaged, and/or a large number of devices are in use. • The network was designed over 8 years ago and is significantly overutilized. 	<ul style="list-style-type: none"> • New Coverage is Campus Wide. • More Access Points are included in this design. • Complete campus coverage indoor and outdoor. • Faster through-put data; voice; video processing.
Quality of Wireless	<ul style="list-style-type: none"> • When streaming high-definition videos (an increasing common occurrence), performance can be noticeably impacted when using the following: <ul style="list-style-type: none"> • Mobile devices: Phones & Laptops • SMART Classrooms • Applications 	<ul style="list-style-type: none"> • Over 40 users per AP can stream high-definition video • Zero latency for the following: <ul style="list-style-type: none"> • Mobile devices: Phones & Laptops • SMART Classrooms • Applications
Staff Experience	<ul style="list-style-type: none"> • There are several areas around the campus that lack sufficient coverage and experience slowdowns. 	<ul style="list-style-type: none"> • The new system will provide improved staff and student wireless experience.



Laney College – Scope of Request



Hardware - Network

- Network Switches
- Wireless Access Points (Wi-Fi)
- 30-minute Power Backup System

Hardware - Cabling

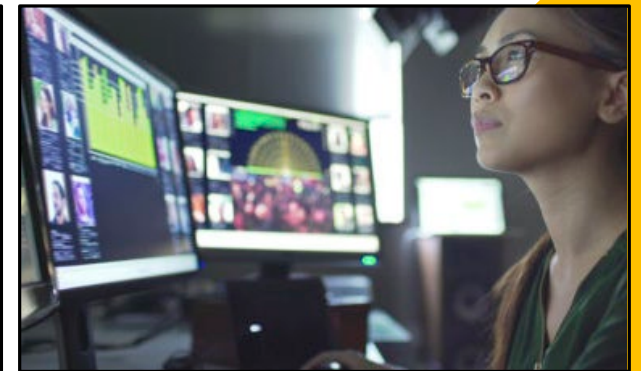
- Category 6A Cable
- Fiber Optics
- Cabinets

Software / Licenses

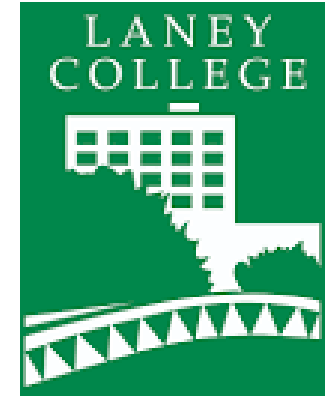
- Cyber Security (from Security EA)
- Voice (from Flex EA)
- Licenses

Professional Services

- Project Management
- Cabling / Fiber Techs
- Engineering – Cisco CCIEs and CCNPs
- SLBEs



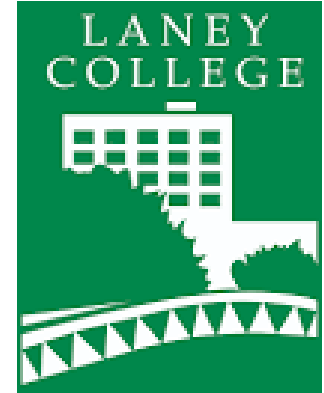
Laney College – Business Objectives



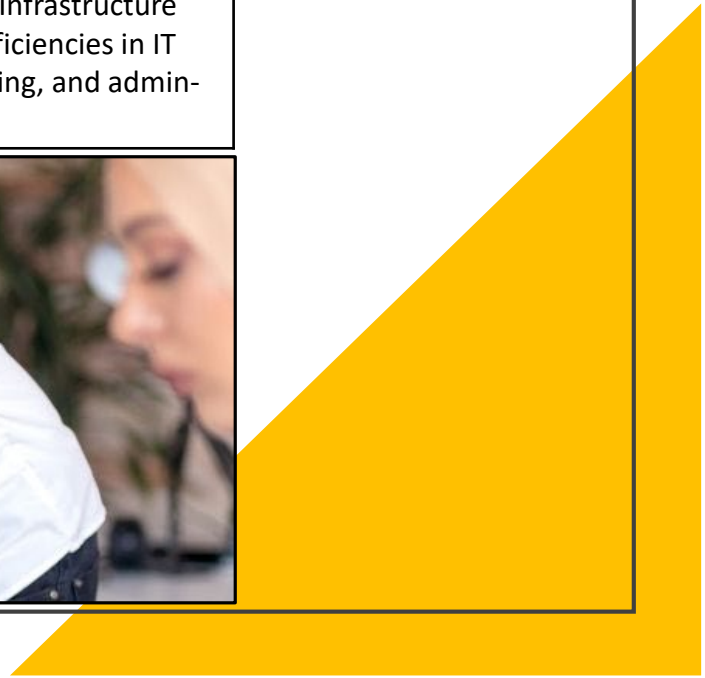
Business Objectives	Current Infrastructure	Upgraded Infrastructure Requested by PCCD
Wireless Coverage	<ul style="list-style-type: none"> • Current coverage is focused primarily on classrooms and consists of a limited number of outdated Access Points. • The outdoor coverage is limited and is no longer reliable. • The network was designed over 8 years ago and is overutilized and now underequipped. 	<ul style="list-style-type: none"> • New Coverage is comprehensive and Campus Wide. • More Access Points, with higher sophistication, are included in this design. • Coverage indoor and outdoor. • Stadium and field coverage.
Quality of Wireless	<ul style="list-style-type: none"> • When streaming high-definition videos (an increasing common occurrence), performance can be noticeably impacted when using the following: <ul style="list-style-type: none"> • Mobile devices: Phones & Laptops • SMART Classrooms • Applications 	<ul style="list-style-type: none"> • Over 40 users per AP can stream high-definition video • Zero latency for the following: <ul style="list-style-type: none"> • Mobile devices: Phones & Laptops • SMART Classrooms • Applications
Staff and Student Experience	<ul style="list-style-type: none"> • There are several areas around the campus that lack sufficient coverage and experience slowdowns. • User Experience impacted negatively, when multiple users and devices are present an in use. 	<ul style="list-style-type: none"> • The new system will provide improved staff and student wireless experience.



Laney College – Business Objectives



Business Objectives	Current Infrastructure	Upgraded Infrastructure requested by PCCD
Product Support	Today, the current staff needs to support several product lines. Ongoing training on multiple platforms is challenging and burdensome.	The new proposed infrastructure will be the same product line that the district has standardized. Cisco training is provided at no cost. It is streamlined, current- and forward-facing, ...and easier!
Application support	Application Support is needed across multiple networks, utilizing limited internal staff, creating significant challenges and inefficiencies. Multiple end-of-life support streams to follow.	Reduce number of supported networks and propose move to Digital Network Architecture (DNA) at the District Office as a first step, and then deploy to college sites as a next step.
Device Support	Non-standard network configuration across colleges, and the District Office, is creating labor intensive IT support.	Standardized Network and Infrastructure configuration will create efficiencies in IT support, infrastructure scaling, and admin- and end-user training.



Berkeley City College – Scope of Request



Hardware - Network

- Network Switches
- Wireless Access Points (Wi-Fi)
- 30-minute Power Backup System

Hardware - Cabling

- Category 6A Cable
- Fiber Optics
- Cabinets

Software / Licenses

- Cyber Security (from Security EA)
- Voice (from Flex EA)
- Licenses


Professional Services

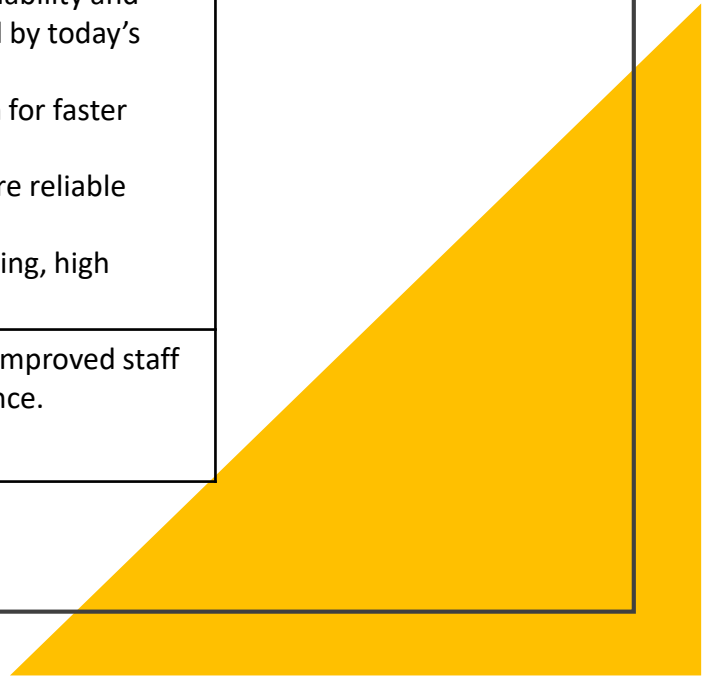
- Project Management
- Cabling / Fiber Techs
- Engineering – Cisco CCIEs and CCNPs
- SLBEs




Berkeley City College – Business Objectives

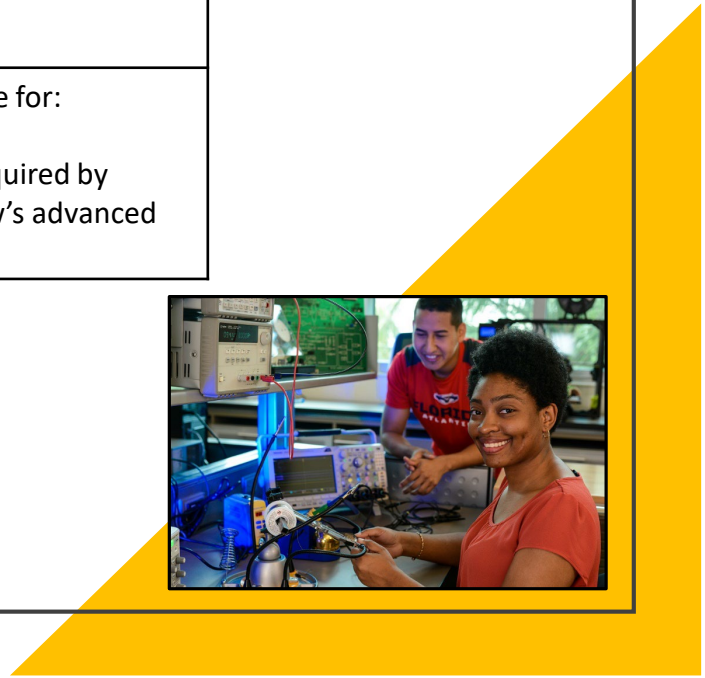
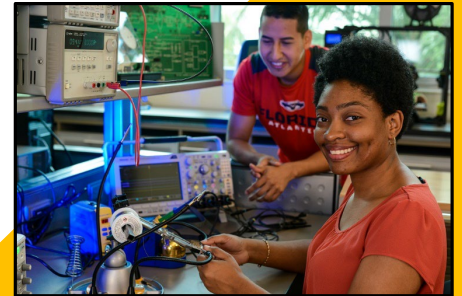


Business Objectives	Current Infrastructure	Upgraded Infrastructure Requested by PCCD
Video, Voice, Streaming	Current Quality; UX; POE: <ul style="list-style-type: none"> ● Limited end-to-end Quality of Service (QoS). ● Users can experience jitter, delay – Voice and video quality will be depreciated. ● POE not available on all ports and not supported on majority of existing switches. Will require additional power adapter for each phone. 	Upgraded Quality; UX; POE: <ul style="list-style-type: none"> ● Supports end to end Quality of Service to ensure exceptional voice and video quality. ● User experience significantly enhanced. No jitter or delays. ● POE+ available on all ports and switches.
Wi-Fi 	Degraded performance when using multiple instances of the following: <ul style="list-style-type: none"> ● Mobile devices, laptops, BYOD ● Smart Classrooms (e.g., Smart Board) ● Surveillance cameras ● Security phones ● IP radios ● Distance learning & online curriculum ● Most of the existing equipment is "End of Life" which means that obtaining support in an outage or failure is nearly impossible, and very risky. 	Upgraded performance: <ul style="list-style-type: none"> ● Provides comprehensive, robust infrastructure for high availability and high performance required by today's advanced applications. ● Provides higher bandwidth for faster access. ● Optimization. Broader, more reliable coverage ● Multi-device, multi-streaming, high quality experience
Staff, Admin & Student Experience	<ul style="list-style-type: none"> ● There are several areas around the campus that lack sufficient coverage and experience slowdowns. 	<ul style="list-style-type: none"> ● The new system will provide improved staff and student wireless experience.





Business Objectives	Current Infrastructure	Upgraded Infrastructure requested by PCCD
Disaster Recovery (DR) Infrastructure	Limited bandwidth for: <ul style="list-style-type: none"> ● Data replication <ul style="list-style-type: none"> ○ Putting data backup at an increased risk. 	Upgraded Infrastructure: <ul style="list-style-type: none"> ● Provides high speed processing for data replication. ● Provides necessary infrastructure to support future connectivity to the DR location.
Robust Network Infrastructure for Security Camera Integration and Support 	<ul style="list-style-type: none"> ● POE not available on all ports and not supported on majority of existing switches. ● Existing network does not provide enough bandwidth to support quality video traffic. 	<ul style="list-style-type: none"> ● POE+ available on all ports and switches. ● Provides more bandwidth to high support video and audio traffic, including 4K.
Cloud Applications including E-mail	Existing network is : <ul style="list-style-type: none"> ● Under-performing relative to today's / tomorrow's needs. ● Under-delivering. 	Provides robust infrastructure for: <ul style="list-style-type: none"> ● High availability ● High performance required by today's and tomorrow's advanced cloud applications.



Merritt College – Scope of Request (Targeted / Limited Refresh)



Merritt's overall network is more current than some of the other campuses, but there are some targeted network and cabling needs identified by the District in order to maintain the continuity of operations and User- and staff-experience:

Hardware - Network

- Network Switches (x3)
- Wireless Access Points (Wi-Fi; x29)
- 30-minute Power Backup System

Hardware - Cabling

- Cabinets
- Category 6A Cable
- Fiber Optics

Professional Services

- Project Management
- Cabling / Fiber Techs
- Engineering – Cisco CCIEs and CCNPs
- SLBEs

Software / Licenses

- Cyber Security (from Security EA)
- Voice (from Flex EA)
- Licenses



College of Alameda – Scope & Benefits (Targeted / Limited Refresh)



COA's overall network is more current than some of the other campuses. The scope requested by PCCD will include two Firewalls with Threat Defense, and updating the Category Cable and Fiber Optics in order to provide better through-put network speed.

Hardware - Network

- Firewalls (x2)
- Threat Defense

Hardware - Cabling

- Category 6A Cable
- Fiber Optics

Professional Services

- Project Management
- Cabling / Fiber Techs
- SLBEs

Software / Licenses

- Cyber Security (from Security EA)
- Voice (from Flex EA)



Merritt – Campus requested Cell Boost Augmentation Buildings Q and R, Learning Area Coverage



Solution - Specs



- Maximum reliability with minimal downtime within propagated learning areas in buildings. This also provides Life & Safety back-up to the Wireless Infrastructure.
- Enhances 4G & 5G signals to provide reliable voice, texting and data coverage
- Ideal for enhancing coverage in educational and commercial spaces
- Low cost of maintenance.
- Wall mounted amplifier

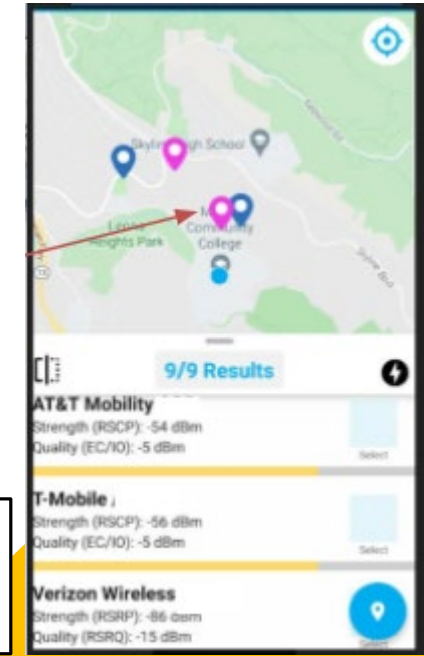
- +17 dBm downlink power
- Max Gain: 70 dB
- XDR Technology
- Local Towers Boosted: Verizon; T-Mobile; AT&T
- Integrated Power Supply

Specifications

SKU	460152* - 460252* - 460352* - 460452* 460153* - 460253* - 460353* - 460453*
FREQUENCIES	Band 12/17 700 MHz Band 13 700 MHz Band 5 850 MHz Band 4 1700/2100 MHz Band 25 1900 MHz
MAX GAIN	70 dB
MAX UPLINK POWER	26 dBm
MAX DOWNLINK POWER	17 dBm
IMPEDANCE	50 Ohm
POWER	120 V AC, 60 Hz, 60 W
CONNECTORS	N-Female
AMPLIFIER DIMENSIONS	19 x 12 x 2.5 - 17.5 x 12 x 3.75 in
AMPLIFIER WEIGHT	16.930 lbs - 9.860 lbs



NetXperts conducted Site Surveys



Solution will boost **Verizon; AT&T; and T-Mobile** For **Buildings Q and R.**



Merritt Cell Boost BOM, slides 1 of 2



Merritt Cellular boosting, 2-28-22. Q & R Buildings ONLY. INCLUDES SLBE.
Pricing locked for 30 days.

Part Number	Vendor	Description	Price	Qty	Extended Price
Building Q	Building Q	Building Q	Building Q	Building Q	Building Q
WilsonPro Electronics	WilsonPro	4300 AMPLIFER, PLUS 3 SPOOLS OF THE 500 FEET OF 1/2 INCH HELIAX CABLE	\$13,412.63	1	\$13,412.63
WilsonPro Electronics	WilsonPro	4G LOW-PROFILE DOME ANTENNA	\$114.38	10	\$1,143.79
WilsonPro Electronics	WilsonPro	REFLECTOR FOR 4G LOW PROFILE ANTENNA	\$14.32	10	\$143.21
WilsonPro Electronics	WilsonPro	2-Way splitter	\$64.82	1	\$64.82
WilsonPro Electronics	WilsonPro	SPLITTER 4 WAY W/N FEMALE Connectors	\$86.22	2	\$172.43
WilsonPro Electronics	WilsonPro	CONN RF N PLUG LHF/HFAC-12DP	\$40.51	28	\$1,134.15
WilsonPro Electronics	WilsonPro	V CLOUD LICENSE 12 MONTHS	\$204.41	4	\$817.64
Building R	Building R	Building R	Building R	Building R	Building R
WilsonPro Electronics	WilsonPro	4300 AMPLIFER, PLUS 3 SPOOLS OF THE 500 FEET OF 1/2 INCH HELIAX CABLE	\$13,412.63	2	\$26,825.27
WilsonPro Electronics	WilsonPro	4G LOW-PROFILE DOME ANTENNA	\$114.38	24	\$2,745.10
WilsonPro Electronics	WilsonPro	REFLECTOR FOR 4G LOW PROFILE ANTENNA	\$14.32	24	\$343.70
WilsonPro Electronics	WilsonPro	2-Way splitter	\$64.82	4	\$259.27
WilsonPro Electronics	WilsonPro	SPLITTER 3 WAY W/N FEMALE Connectors	\$71.96	6	\$431.73
WilsonPro Electronics	WilsonPro	SPLITTER 4 WAY W/N FEMALE Connectors	\$86.22	1	\$86.22
WilsonPro Electronics	WilsonPro	CONN RF N PLUG LHF/HFAC-12DP	\$40.51	66	\$2,673.36
WilsonPro Electronics	WilsonPro	V CLOUD LICENSE 12 MONTHS	\$204.41	8	\$1,635.29
Doner Antennas	Doner Antennas	Doner Antennas	Doner Antennas	Doner Antenna	Doner Antennas
WilsonPro Electronics	WilsonPro	HIGH GAIN LPDA ANTENNA	\$179.01	8	\$1,432.08
WilsonPro Electronics	WilsonPro	LIGHTNING SURGE PROTECTOR	\$64.82	8	\$518.54
WilsonPro Electronics	WilsonPro	1.25 IN OD NON-PENETRATING ROOF MOUN	\$274.03	3	\$822.08
WilsonPro Electronics	WilsonPro	1/2 INCH CABLE PREP TOOL	\$405.21	3	\$1,215.62
WilsonPro Electronics	WilsonPro	1/2 INCH CABLE FLARING TOOL	\$67.51	3	\$202.53
WilsonPro Electronics	WilsonPro	CONN RF N PLUG LHF/HFAC-12DP V	\$40.51	46	\$1,863.25
WilsonPro Electronics	WilsonPro	CELL LINQ PRO METER (HARD	\$663.98	1	\$663.98
WilsonPro Electronics	WilsonPro	2-Way splitter	\$64.82	5	\$324.09

Merritt Cell Boost BOM, slides 2 of 2



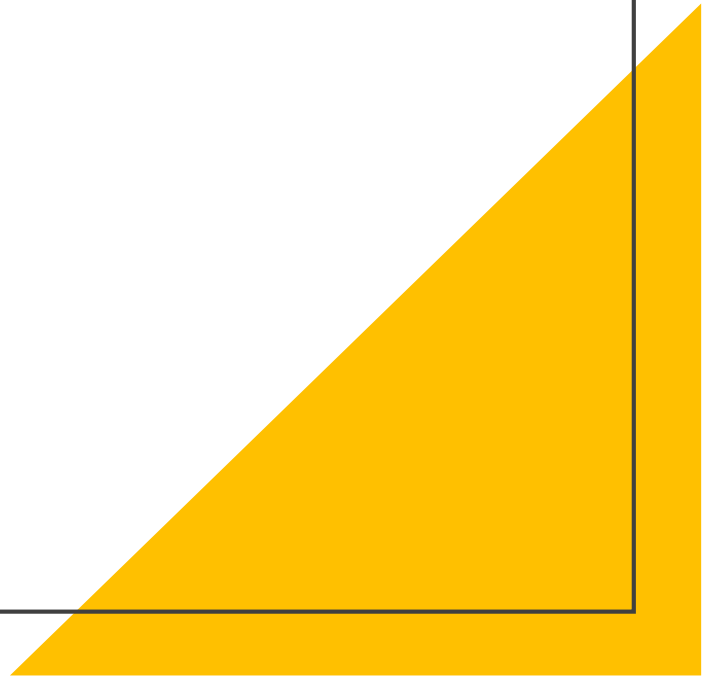
OPTICAL ZONU FIBER EQUIP	OPTICAL ZONU FIBER	OPTICAL ZONU FIBER EQUIP	TICAL ZONU FIBER EQ	OPTICAL ZON	OPTICAL ZONU FIBER EQUI
WilsonPro Electronics	WilsonPro	Ext, 15dBm, TSbox, ANT, Rx, Tx(2LNA)5 B, 1550, SM, dual LC, Ncon, 48V	\$9,906.04	2	\$19,812.08
WilsonPro Electronics	WilsonPro	Splitter <(>&<)> CWDM combiner, 1U, 5.9" deep, 1in 8out, dual LC/APC	\$492.16	2	\$984.32
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1270, SM, LC, Ncon, 48VDC	\$5,131.77	2	\$10,263.54
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1290, SM, LC, Ncon, 48VDC	\$5,131.77	2	\$10,263.54
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1310, SM, LC, Ncon, 48VDC	\$5,131.77	2	\$10,263.54
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1330, SM, LC, Ncon, 48VDC	\$5,131.77	2	\$10,263.54
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1470, SM, LC, Ncon, 48VDC	\$5,131.77	2	\$10,263.54
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1490, SM, LC, Ncon, 48VDC	\$5,131.77	1	\$5,131.77
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1510, SM, LC, Ncon, 48VDC	\$5,131.77	1	\$5,131.77
WilsonPro Electronics	WilsonPro	Ext15dBm, TSbox, EQPT, Rx, Tx(LNA)5, Band, 1530, SM, LC, Ncon, 48VDC	\$5,131.77	1	\$5,131.77
WilsonPro Electronics	WilsonPro	Power Supply, AC to -48VDC, Adaptor, 0.84A, 40W, HIROSE, USA	\$163.52	15	\$2,452.79

Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous
Misc.	Misc.	Miscellaneous Parts, including fiber	17,550.00	1	17,550.00

Pro Services	Pro Services	Pro Services	Pro Services	Pro Services	Pro Services
Installation	Instillation	Installation of Wilson Electronics, Equipment (Antennae, Repeaters, Wilson Pro 4300's, Termination of all cable, Splitters). EMT will be limited to 100 Feet	153,750.00	1	\$153,750.00
Project Management	PM	Project Management	21,000.00	1	\$21,000.00

Sub Totals	
Pro Services	\$174,750.00
Licensing	\$2,452.93
Materials	\$146,440.07
Tax	\$15,010.11
Total	\$338,653.10

Q & A





Merritt College puts students first. Through our rich educational programs, we foster a culture of equity and inclusion that empowers students to achieve their greatest potential and make meaningful contributions to their respective communities and our global society.

Prioritization of Technology Projects for Reporting to the District Technology Committee

April 8, 2022

The Merritt Technology Committee has compiled the following list of technology priorities. Committee members provided input using a short survey as well as contributed to discussion on the ranking and justification for each item. Additional review was provided by Garth Kwiecien (VPAS), Dale Nabeta and Patricia Rom in conversation with the MTC chairs (Henry Mai, Nathan Pellegrin, Glenn VanStraatum). The priority resource requests submitted through the Program Review process was also consulted in developing this list.

While an attempt was made to order the items with respect to their relative priority, and the rank of the first two items follows this rule, the numbers assigned to items 3 through 6 is not as firm and should be treated as a group of tertiary priority.

Priority #1. Improve cellular phone connection on Merritt campus

Corresponding PCCD Plan Items:

A.1.a.7 Adopt a “mobile first” strategy to ensure equitable access for students and the community; mobile access to conduct student services actions:

- -Apply to the college
- -Review schedule of classes
- -Register/enroll for classes
- -Add/Drop a class
- -Pay fees
- -Address account holds
- -Check grades
- -Request transcripts
- -Text messaging

C.1.d.3* Improve cell phone coverage across locations identified (Laney, Merritt, BCC)

Justification:

District is obtaining quote for installing signal boosters in two buildings (R, Q) at a cost of approximately \$60K. This phase will be used as test case, and if found effective, the solution will be scaled for entire campus. Improving cell service on campus is a very important health and safety issue and so this will continue to be a priority for AY 2022-23 as the college may need to

make further investments for achieving this goal. Funding might be covered by HEERF, otherwise will be paid by next year's Measure G. Quote for entire campus is \$635K.

Priority #2. Provide for sufficient technology personnel to meet campus needs and achieve technology goals.

Corresponding PCCD Plan Items:

C.1.a.1 Develop a clear technology acquisition process based on identified business needs and total cost of ownership including...impact on IT staffing

B.1.b Leverage IT academic programs at the colleges to supplement and grow IT staffing

Justification:

This is an important issue that we anticipate spending on in FY 22-23. The hiring of a network technician in 2022-23 was recently approved through the participatory governance process. However, we expect this to be inadequate to meet the IT needs of the campus since a senior IT staff may soon retire, and the campus does not currently have staffing to support the needs of the campus. Indeed, Merritt has the fewest number of IT personnel of any college in the district. Conducting the refresh and supporting the college technology goals (workstation upgrades, equipping classrooms to be hi-flex and working SMART, installing/upgrading labs) cannot be accomplished without sufficient IT personnel. Student workers can be utilized to install and upgrade; this requires training and development of protocol by network IT staff. We are asking that careful consideration for Merritt's IT personnel capacity be made in planning a technology refresh and instructional technology upgrades. In the long term, the campus is best served by full-time staff that can be cross-trained so that they have the knowledge to respond to issues that arise across campus (classrooms, network, etc.).

Priority #3. Complete a comprehensive refresh of office technology and network infrastructure

Corresponding PCCD Plan Items:

C.1.b Develop and implement a hardware acquisition plan and refresh (replacement) policy based on equipment lifecycle standards

C.1.b.1* Bring to current and develop a comprehensive replacement cycle for employee and lab computers using a 5-year lifecycle resulting in 20% annual replacements.

C.1.b.2* Develop and implement a comprehensive replacement cycle for servers, network devices (including wi-fi), Uninterruptible Power Supplies, and A/C units in MDF (Main Distribution Frame) and IDF (Intermediate Distribution Frame) rooms across all Peralta College sites.

Justification:

A technology refresh for Student Services, Business Office and President's office, (Building R and Q) has been encumbered (\$450K). The district has yet to approve and process every Measure G expenditure. Consequently, this is still a priority because exactly which items will be paid for this fiscal year under the district plan has not been confirmed, and whether this will cover all tech refresh needs across the campus.

Regarding network infrastructure specifically, we need to replace S-building switches with Cisco to replace obsolete units. This would improve internet connectivity and reliability. Without this upgrade we have increased risk of service outages. This would be fundable by measure G. The district office is currently upgrading their switches to Cisco.

Priority #4. Complete installation and upgrade of SMART classrooms; upgrade a subset of SMART classrooms for hi-flex modalities

Corresponding PCCD Plan Items:

- C.1.c.** Develop and Implement Classroom Technology Standards for all classrooms to include, lecture, CTE, CTE demo labs and all labs' classrooms
- C.1.c.1** Develop and implement written smart classroom standards that meet the current and future educational delivery needs of the Peralta Colleges.
- C.1.c.2** Develop inventory of existing classrooms identifying current technologies in place along with gap of items needs to meet the standards.
- C.1.c.3** Maintain faculty technology resources spaces to allow for the recording of lectures and demonstrations

Justification:

Upgrading old SMART tech is necessary for fully utilizing classrooms. Hi-Flex addresses demands of students and faculty.

Number of classrooms by SMART status and need

Status	To be updated with current SMART tech	Install and/or upgrade to Hi-Flex	Total
Already SMART (S-Bldg.)	0	20	20
Old SMART	31	20	51
Not SMART	7	8	15
Total	38	48	86

Cost per classroom

Status	To be updated with current SMART tech	Install and/or upgrade to Hi-Flex
New SMART (S-Bldg.)	\$ -	\$ 15,000
Old SMART	\$ 75,000	\$ 90,000
Not SMART	\$ 80,000	\$ 90,000

Total Cost

Status	To be updated with current SMART tech	Install and/or upgrade to Hi-Flex	Total
New SMART (S-Bldg.)	\$ -	\$ 300,000	\$ 300,000
Old SMART	\$ 2,325,000	\$ 1,800,000	\$ 4,125,000
Not SMART	\$ 560,000	\$ 720,000	\$ 1,280,000
Total	\$ 2,325,000	\$ 2,100,000	\$ 4,425,000

Notes:

- There are 85 SMART classrooms, old and new, across the campus (Patricia Rom).
- Bldg S has 34 SMART classrooms outfitted with current tech.
- Currently classrooms S210 and L132 are being equipped for hi-flex delivery by Dale Nabeta.
- Bldg S needs a refresh for workstations but SMART tech is current.
- Dale estimates \$90K for upgrading old SMART and not SMART to Hi flex, and \$75K-\$80K for upgrading old SMART and Not SMART to new SMART.

Priority #5. Establish technology project management at the college level and clarify processes for coordination with District IT

Corresponding PCCD Plan Items:

A.1.a Streamline processes to improve efficiency and expand system usage

A.1.a.3 Based on process mapping outcomes, implement process improvements which leverage current system capabilities and reduce or eliminate:

- Paper processes
- Manual processes
- Duplicate data entry and storage

A.1.a.4 Compile a list of all system customizations and work to reduce or eliminate them as systems are upgraded and provide new features in preparation for cloud migrations

B.1.b Leverage IT academic programs at the colleges to supplement and grow IT staffing

B.1.b.1 Assess partnerships with IT programs across the colleges to build in-house internship opportunities in Cyber Security, Networking, Mobile App Development, and others that may be relevant.

D.1.a Conduct technology Governance practices that include all constituent groups

D.1.a.1 Evaluate the effectiveness of strategic and operational decision-making groups and implement needed committee improvements

D.1.a.2 Streamline and document the District and College IT collaboration and support models.

D.1.b Institutionalize Technology Planning and Prioritization

D.1.b.2 Create a project prioritization process that is widely communicated for all IT project requests

D.1.b.3 Based on the developed prioritization process re-evaluate all in-progress and identified projects and prioritize them for completion

D.1.c Use Project Management tools for project tracking and completion

D.1.c.1 Identify a project manager/ coordinator for every technology project and select a project management tool for use in planning and tracking progress

D.1.c.2 Conduct project management training for District and College staff

D.1.c.3 Modification to existing and development of new applications, must be done in tandem with a user groups, and include a functional champion to ensure specifications meet user needs and requirement

One of the goals adopted by the Merritt Technology Committee is ongoing project management to support technology systems solutions/adoption across the college and that interfaces and coordinates with the district. For example, Student Services wishes to adopt DynamicForms for supporting student-centered processes. To adopt this system we need to carry out sound project management, and to fully leverage the system will require support from District IT. Beyond this one example, in order to plan and implement technology projects we need clarification on who to communicate with and at what level at the district. In addition, we also intend to support the development of a technology project management career education pathway in the CIS department and to utilize student workers to plan and support technology adoption. Opportunities for work-study, and student worker support in IT, can be enhanced by in-house partnerships with District IT and other colleges.

Priority #6. *Compile a comprehensive list of software used by program/area in order to assess viability for cloud solution, district-wide licensing, and prioritization of requests submitted through the program review process.*

Corresponding PCCD Plan Items:

C.1.e Centralize and Institutionalize Software Licenses

C.1.e.1 Provide consistent and ongoing funding for software, such as office-productivity suite, library system platform, distance education delivery platform, antivirus protection, website development and content management, and other agreed upon districtwide platforms.

C.2 Infrastructure and Cloud Computing

C.2.a Prepare for sustainable technology investments

C.2.a.1 Assess feasibility and Return on Investment for Virtual Desktop Infrastructure, including considerations for: business continuity; impact to software

C.2.a.2 Develop an implementation schedule if cloud strategy deems feasible licensing; and security/isolation of the network for instructional purposes

C.2.a.3* Consider moving to a cloud-based telephone/voice backup system to better address the needs of students and staff and ensure business continuity.

D.2.a.4 Document a list of available software resources and the related function

We are currently engaged in clarifying the details of certain requests and compiling a list of software currently in use across the college. Below is a list of software requested by departments and programs in their comprehensive program review submitted fall 2021.

Description	Estimated Cost
Adobe license for entire campus	?
MS Project	\$ 500
Elumen - Program Review	\$ 20,000
SLATE (CRM) for Enrollment Services	\$ 100,000

Digital real estate software	\$ 2,000
Horticulture (vector sketch up)	\$ 7,500
Arc GIS for use in Environmental Science	\$ 750
Trajecsys for use in Radiology	\$ 5,000
Survey Monkey multi-user subscription for use by program staff	\$ 300
Lexis Nexis for use by Paralegal	\$ 1,500
Paralegal Office software (billing, timekeeping, calendar, case management)	\$ 7,000
Health Impact (CCPS) clinical database ATI, TEAS Kaplan Integrated testing service	?
Lab simulation for Medical Assisting programs	\$ 6,400
SWIVL Software License for use in Child Development Program	\$ 1,500
Accessibility Software for SAS: Data collection, assistive software for hard of hearing (AVA), visually impaired (Jaws, Dragon Dictation).	?
SportsWare for use in Athletics programs	\$ 500
Career Assessment and Employment Preparation Tools and Resources, including Roadtrip Nation, Eureka, Interview Stream subscriptions.	\$ 15,000
CANVA, Animoto	\$ 1,000
Various software used in the Transfer Center	\$ 1,000
Space Scheduling Management Software for in Facilities Services	\$ 25,000
Laerdal, Sim Lab for use in Nursing	\$ 5,000
HER-Go for use in COSER	\$ 23,000
Various software upgrades used in Art classes	\$ 2,000
Various software upgrades used in Learning Resources	\$ 20,000
Updated software tools utilize computation intensive methods for Machine Learning, Data Science, Cryptography. Merritt does not have a computer that students can access remotely to complete coursework.	\$ 233,096
Need variety of software for Mac and Windows for migrating user profiles, scanning for malware, imaging computers, etc.	\$ 2,000