

Computer Lab of the Future

Overview

- Brief background
- Pre-COVID status quo
- COVID
- Beyond

Where We've Been

- Despite laptop requirement, computer labs have persisted
 - Specialized hardware/software
 - Convenience
 - Configuration/customization
- Computer Integrated Learning Spaces







COVID

- Remote learning
- Social distancing
- Sanitization protocols

Working Group

- Jonathan Bradley
- Alice Rogers
- Scott Huffman
- James Archual
- Robert Dickert
- Andrew Tweedt
- Brian Broniak
- Jeffrey McConnell
- John Homer
- Quinn Warnick
- Santhosh Chalamalla
- Thomas Weeks
- Bob Edmison
- Rick Craig
- Gary Burns
- Jackie Meese
- Warren Lucero
- Denton Yoder
- Steve Edwards
- Jeffrey Lewis
- Cindy Kelley
- Shannon Phillips
- Ryan Spoon
- Jim Dickhans
- Mark Sumner
- Scott Shetrone
- Jeremy Mumford
- Kimberly Ascue
- Dale Pike
- Justin Davenport

Working Group (cont.)

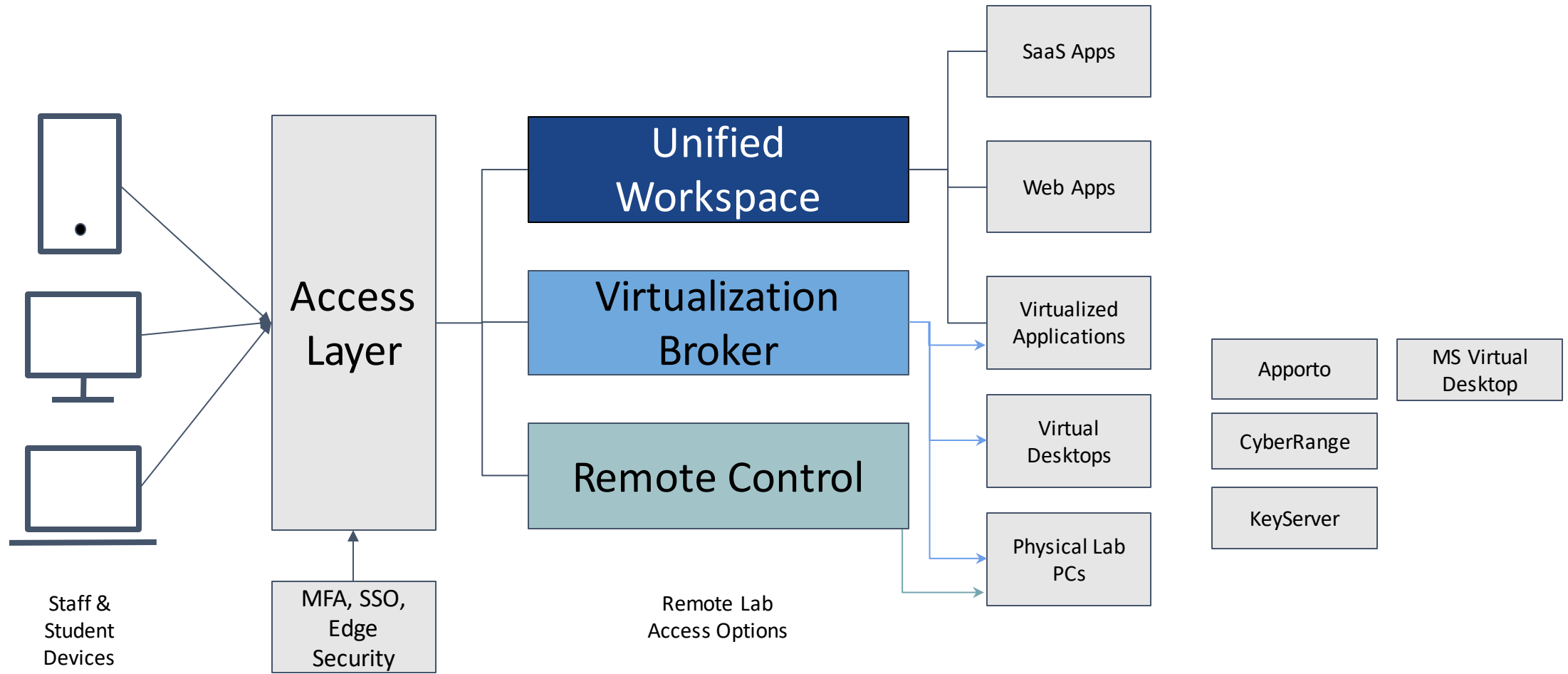
- University Library
- CALS
- Division of IT
- Engineering
- College of Business
- Vet Medicine
- DC Area

Options for consideration

- Keyserver w/ current installed lab machines (funded, PROD now)
 - Apporto (COVID funding, in PROD soon)
 - CyberRange (unfunded, potential)
 - Microsoft Azure labs (or Virtual Desktops) (unfunded, potential)
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- We are planning a head to head analysis of these options
 - Apporto is the only option that offers Canvas integration today

Computer Lab of the Future (Project)

- Explore/document emerging practices
 - Virtualization
 - Visualization
- Consider continuing needs for physical spaces
 - Instruction
 - Collaboration
 - Support



Right now

- Apporto license
 - Two years (starting now, Fall 2020)
 - We have a concurrent use model with 50 lightweight, 50 medium, and 50 large machines
 - Support remote learning
 - Demonstrate use cases/usage levels
 - Establish support/funding models

Challenges

- How to pay for it (after two-year period)?
- Direct billing to departments?
- “Brokered” billing?

Apporto Timeline

- Goal: Have system online for at least one class by 10/30/2020
 - Build upon work done during 2020 Summer Pilot
 - Setup SSO using SAML (uses VT Login Service)
 - Setup Canvas LTI integration
 - Deploy just limited number of virtual desktops to start with more added later

Questions?