

CONNECTIVITY FOR LEARNING



58% Of schools say that they are in Phase 3



LAB

CURRENT 1%
DESIRED 0%

ACCESS

- Lab-centric classrooms

USAGE

- Small files/PDFs

INFRASTRUCTURE

- Classroom switch
- 10/100Mbps edge
- 1Gbps backbone

PHASE 1



TEACHER

CURRENT 26%
DESIRED 2%

ACCESS

- Teacher-centric classrooms

USAGE

- Interactive E-Books
- Google Docs / Office 365

INFRASTRUCTURE

- Wi-Fi 5 (Cloud-managed)
- 1 Gbps edge with PoE
- 10 Gbps backbone

PHASE 2



STUDENT

CURRENT 58%
DESIRED 32%

ACCESS

- Student-centric classrooms
- Secure campus / remote access

USAGE

- Courseware and denser files
- VR, video and gaming

INFRASTRUCTURE

- 2.5 Gbps Wi-Fi 5
- 2.5 Gbps edge with 60W PoE
- 10/40 Gbps backbone

PHASE 3



COMMUNITY

CURRENT 11%
DESIRED 40%

ACCESS

- Community and industry (Smart Cities)
- Collaboration between schools and nations
- Outdoor Connectivity (School bus Wi-Fi)

USAGE

- Video conferencing and streaming
- Synchronous and Asynchronous learning
- E-Sports

INFRASTRUCTURE

- Wi-Fi 6 and CBRS (indoor & outdoor)
- 5 Gbps edge with 90W PoE+
- 40 Gbps backbone
- Cat 6A & Fiber

PHASE 4



GLOBAL

CURRENT 4%
DESIRED 13%

ACCESS

- Global / Internet of things

USAGE

- Virtual classrooms
- Pervasive computing

INFRASTRUCTURE

- Cloud Analytics
- Wi-Fi 6 + LTE + IoT
- 5/10 Gbps edge
- 100 Gbps backbone
- Cat 6A & Powered Fiber

PHASE 5

“Where are you on your digital learning transition?”

WIRELESS TECHNOLOGY (INDOOR AND OUTDOOR)



- RUCKUS® Wi-Fi 6 access points (802.11ax) is used as the benchmark for certification
- Patented BeamFlex® antenna array enables high performance and high device density for indoor and outdoor coverage
- Patented SmartCast automatically prioritizes video and audio streams for improved quality of video conferencing

STRUCTURED CABLING TECHNOLOGY (FIBER AND COPPER)



- SYSTIMAX® structured cabling provides industry-leading bandwidth, power and intelligence (imVision®) along with our Application Assurance guarantee
- Category 6A upgrades to ensure maximum throughput for Wi-Fi 6 access points
- Long distance powered fiber connectivity to HD cameras, sensors, or small cells

SWITCHING TECHNOLOGY (ICX)



- Eliminate bottlenecks from edge to core with 1 GbE/10GbE/40GbE/100GbE Stackable and Fanless Gigabit ICX Switches
- Power next-generation PoE devices (PoE, PoE+/802.3bt (90 watts per port))
- Single-pane-of-glass for wired and wireless management

“How does this fit my classroom or my district?”

Wireless Technology

Indoor and outdoor Wi-Fi (access points with Wi-Fi 6 that enables high device density, high-quality video, IoT sensors and cloud-managed control)

Mobile Hotspot (mobile-wireless access point is designed to leverage LTE networks as a backhaul and provide outdoor coverage)

Fiber and Copper Cabling

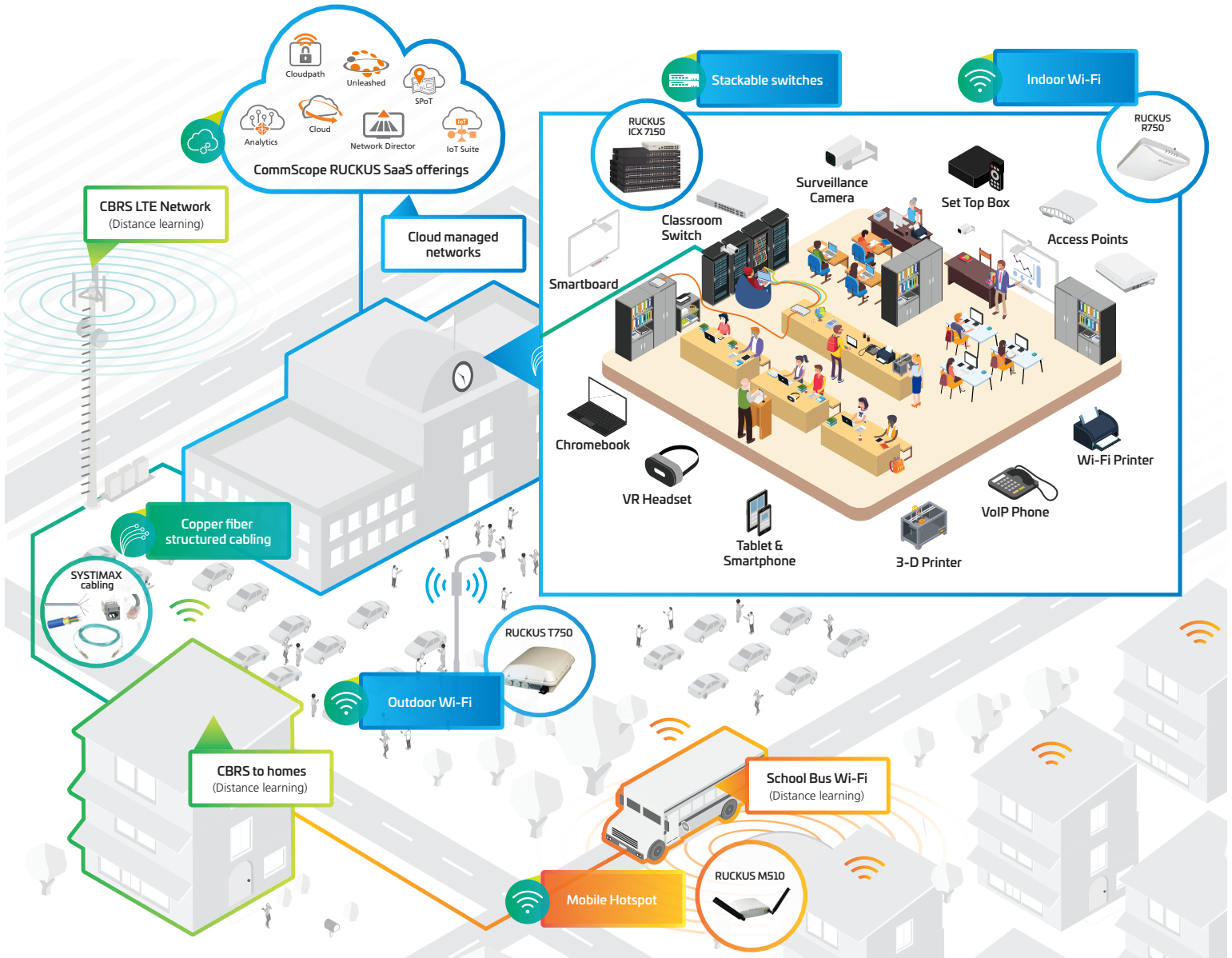
Cat 6A and Powered Fiber (indoor and outdoor cabling to connect security cameras, sensors and small cells)

Switching Technology

Multigigabit stackable switches with PoE (delivers high-end routing and security capabilities suitable for any school or district network)

Cloud-Managed Solutions

SaaS offerings (Cloudpath ES, RUCKUS Cloud Network Monitoring, IoT Networking, RUCKUS SPoT, RUCKUS Analytics)



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