COLLEGE DORMITORY CONNECTIVITY SOLUTION EBOOK

KEEPING DIGITAL NATIVES CONNECTED TO THEIR WORLD

4-6

CONNECTED DEVICES

INTRODUCTION

Today's students arrive on campus with an average of 4-6 connected devices each—from laptops, tablets and smartphones to gaming consoles, smart TVs and wireless devices. Dorms and student housing are no longer just living spaces; they're digital hubs where streaming, coursework, and social connections all compete for bandwidth.

For campus IT teams, this creates a major challenge: delivering seamless, secure, and reliable Wi-Fi® across high-density housing environments—while keeping costs and support tickets under control.

TOP CONNECTIVITY CHALLENGES IN DORMS
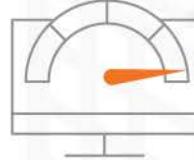
Device overload

High student-to-device ratios can overwhelm traditional Wi-Fi networks.

Bandwidth strain

Streaming, gaming, and hybrid learning compete for limited resources.
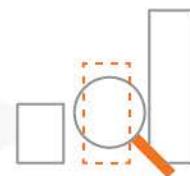
Coverage gaps

Dead zones in dorm rooms and common spaces frustrate students and staff.

IoT complexity

Smart locks, HVAC, and appliances demand more bandwidth from your network.

Increasing help desk tickets

small IT teams are often stretched thin troubleshooting network challenges.

KEY REQUIREMENTS FOR DORM WIRELESS NETWORKS

To meet student expectations and operational needs, a modern dorm network must deliver:

- High-density Wi-Fi to support hundreds of devices simultaneously.

- Seamless coverage in every room, lounge, and shared space.

- Robust security with segmented student, staff, and IoT traffic.

- Easy management through centralized control and automation.

- Future scalability to adapt to new applications and device growth.

HOW RUCKUS IMPROVES DORM NETWORK RELIABILITY

Enhanced network stability stops video call or online streaming buffering

Strong signal transmissions focused to each device prevent drops and disconnects

Ubiquitous coverage eliminates weak connections and dead zones

Lightning-fast connections neutralize high latency and network lag

Individualized unique passwords simplify secure onboarding for all student devices

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REAL-WORLD IMPACT

RUCKUS Networks delivers excellence to new premier student housing properties

For two university student-housing flagship properties in Texas, WireStar® Networks chose RUCKUS Networks. These high-capacity high-rises required reliable high-density solutions that are easy to manage and work right out of the box.

Texas A&M's The Rev Student Living
19 stories tall
More than 800 students

University of Houston's Haven at Elgin
16 stories tall
Nearly 650 students

Next steps and resources

Assess your current dorm network performance.

Identify gaps in coverage, capacity and management.

Partner with RUCKUS to design a future-ready solution.

Schedule a consultation with our education team!
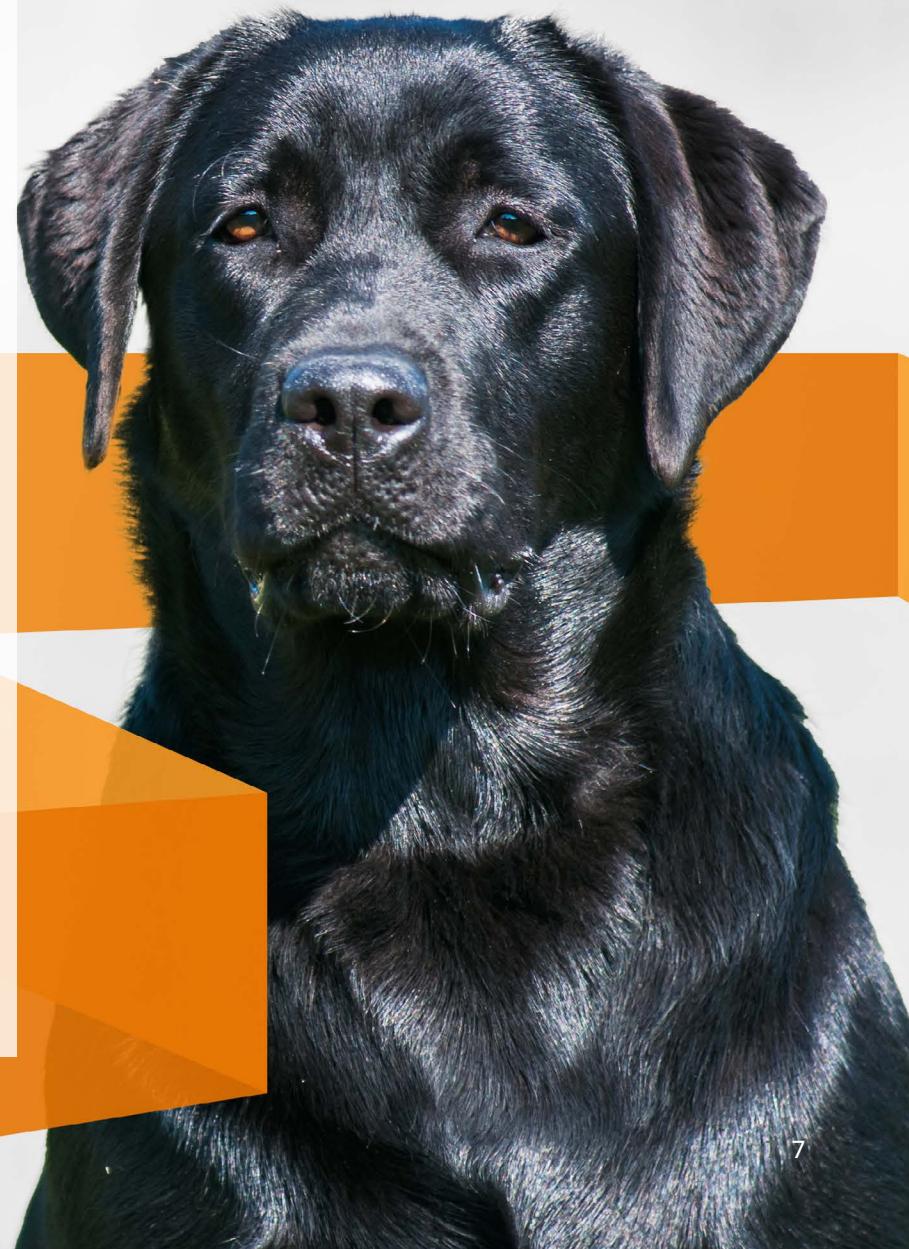
About RUCKUS Networks

RUCKUS Networks designs and builds truly purpose-driven network infrastructure that meets the strictest requirements of all kinds of enterprise environments. Together with our dedicated go-to-market partners, we enable customers to deliver exceptional network experiences, making RUCKUS Networks one of the most trusted brands in the business—a loyal companion ready to help get the job done whatever it takes. RUCKUS Networks is backed by the corporate resources of CommScope, which powers many of the world's most advanced networks.