



# K-12 Overview

WITH THE REVENUE EXTRACTION GATEWAY







As the digital landscape continues to evolve, it's more important than ever to equip our future leaders with the skills to navigate technology. However, managing a network of devices in the classroom can be a daunting task, requiring significant resources and leading to equipment and resource overload. That's why the revenue eXtraction gateway (rXg) is such a game-changer.

Purpose-driven and designed specifically for education networks, the rXg streamlines workflows, fortifies security, and delivers purpose-built features to elevate your network to new heights. With the rXg, you can say goodbye to the hassle and expense of managing a complex network of devices and hello to a future-ready education network that provides students with the tools they need to succeed in the digital age.

## SD WAN

With the growing demand for online testing, a secure and dependable internet connection has become a necessity for students to succeed. To eliminate the risk of a primary internet link failure disrupting the testing process, the rXg offers a solution. With automatic reconnection to a backup

link, students can continue their assessments without interruption, allowing them to reach their full potential.

Not only does the rXg provide automatic backup, but it also offers advanced features for optimal network performance. The gateway balances internet traffic evenly across multiple links for a stable and reliable connection, and constantly monitors link health for real-time routing to the most optimal link.

The rXg is versatile and designed to work with a variety of connectivity options, including DSL, Cable, 5G, fixed wireless broadband, and more. With the rXg, schools can rest assured that they will have a robust and dependable connection for online testing, regardless of the type of internet connection available.

## Microsegmented Geofencing

Classrooms equipped with various devices like projectors, printers, scanners, and smartboards can pose a challenge for schools. The large number of devices and classrooms make it difficult to find and properly use the equipment, taking away from instructional time.

To overcome these challenges, the rXg offers a solution with its ICX switch and SmartZone wireless integration. This solution is based on two key features: micro-segmentation and location integration.

Micro-segmentation divides the network into secure segments, enabling better control and monitoring of device access and communication. Location integration then automatically places devices in the right segment based on their physical location, eliminating manual configuration and management.

The result is an enhanced security and user experience, allowing access only to devices in a user's current classroom and preventing unauthorized access to other devices. This makes necessary devices easily and immediately available to users. The same approach can be applied to manage devices in different departments, floors, or buildings, segmented by location and accessibility.

## CONTENT FILTERING

The rXg is an ideal solution for schools looking to control internet access and protect students from harmful or inappropriate content. The built-in content filtering feature allows administrators to easily block access to unwanted websites and restrict access to certain types of content, such as social media or gaming sites. This feature also includes a log that records attempts to access restricted content, providing valuable insight into student behavior and potential areas of concern.

Additionally, the rXg allows for granular self-service control over Internet access, giving teachers the ability to temporarily bypass the content filter in their classrooms. Teachers may also choose to completely disable Internet



access entirely for their classroom or restrict Internet access to a whitelist of sites. The purpose-driven RWG allows for flexible use of the Internet in educational settings, while still maintaining overall control and security.

The rXg can work with external content filtering devices. The most common use case is for the rXg to be configured to provide identity data to external content filtering devices. This integration allows external content filters to report and filter based on the student identity.





## BYOD OSU (Online Sign UP)

The debate between Bring Your Own Device (BYOD) and 1:1 technology models in school districts has been ongoing for years. Many school districts feel that they must choose between the two, but with the rXg, there's no need to sacrifice one for the other. Unlike other solutions on the market, the rXg is built specifically to support both BYOD and 1:1 technology models with ease.

The rXg eliminates the need for schools to worry about the complexities of network architecture, support infrastructure, and costs associated with deploying both models. With its BYOD OSU integration, parents can register their children's devices from the comfort of their own home. All they have to do is scan a QR code or click a link sent to them by rXg, which then handles the integration with RUCKUS SmartZone, ensuring that each device is given a unique and secure DPSK.

The rXg is a game-changer for school districts looking to deploy both BYOD and 1:1 technology models. Its ease of use and low cost make it an attractive solution for schools, allowing them to focus on the important task of educating their students. With the rXg, there's no need to compromise on the benefits of either model. Schools can have the best of both worlds, providing students with access to the latest technology while keeping their network secure and easy to manage.



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