Create a Smarter School Network Design with Juniper Networks

There is no turning back with the digital transformation. And migration to the full-on digital curriculum hinges on having the right smart network design, a design that:

- Affordably addresses the exponential bandwidth growth
- Efficiently connects the district’s traffic aggregation points down to the classroom from expanded 1 to 1 or BYOD programs
- Protects student data and stops network security threats faster
- Supports always-on digital learning by eliminating single points of connection failures between school campuses and external cloud service providers
- Drastically reduces the complexity of maintaining network systems and building in network agility to respond to new service needs

Juniper Networks leads the way by providing the ideal solution for school districts and E-Rate applicants. The network solution and architecture (see Figure 1) integrates Juniper’s award-winning carrier-class switching, routing, security, and network management portfolio into the right smart network design to deliver a quality user experience for the most demanding digital curriculum.

Top 5 Reasons Why Juniper Networks Is the Strong Choice for School Districts and E-Rate Applicants

1) Juniper builds scalable networks to support digital learning broadband connectivity targets.
2) Juniper modernizes and simplifies school networks into a cloud-enabled digital learning services platform.
3) Juniper secures school district networks and helps protect privacy and security of student data.
4) Juniper enables integration of best-in-class next-generation 802.11ac wireless for classroom Wi-Fi.
5) School districts build more network, with higher performance, for less money with Juniper.

Figure 1: Juniper K-12 reference architecture
Features and Benefits

Juniper’s solution “makes the grade” by improving school district network operations and enabling digital learning. Juniper challenges the status quo by offering:

- The industry’s only Virtual Chassis technology and Junos® Fusion Enterprise, which add network agility and simplification to help districts dramatically reduce their effort in managing the network
- Juniper’s unique Software-Defined Secure Network (SDSN), which uses the entire network and cloud-based threat defense to dynamically detect and stop outside and inside threats faster
- Over 50% 5-Year TCO advantage compared to the leading networking brand
- A best-in-class solution that combines Juniper’s industry-leading Ethernet switches with our Technology Alliance Partners’ enterprise-grade indoor/outdoor wireless access

Scalable, Affordable Networks for E-Rate Projects

Juniper understands the importance of ensuring that all students have access to technology in the classroom. Together, Juniper Networks and Juniper Authorized Partners actively help applicants with building their future-looking digital learning network. More and more E-Rate applicants are choosing Juniper’s highly competitive E-Rate eligible products and services (Table 1) for their Category One and Category Two E-Rate projects.

Table 1: Common List of Juniper E-Rate Eligible Products and Services

<table>
<thead>
<tr>
<th>E-Rate Eligible Components</th>
<th>EX Series Ethernet Switches</th>
<th>QFX5100 Switches</th>
<th>SRX Series Services Gateways</th>
<th>MX Series 3D Universal Edge Routers</th>
<th>Next-Gen 802.11 from Juniper WLAN partners</th>
<th>Juniper Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category One</td>
<td>Modulating electronics</td>
<td>✓</td>
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<tr>
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<tr>
<td>Category Two</td>
<td>Basic Maintenance of Eligible Broadband Internal Connections (BMIC)</td>
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<td>✓</td>
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<td>✓</td>
</tr>
</tbody>
</table>

BMIC covers repair, configuration changes, basic remote technical support, software upgrades, patches, bug fixes, and security patches, time and material. For all Juniper E-Rate eligible Category Two Internal Connection components, the following Juniper Care services are applicable with the following eligibility factors:

- Juniper Care Core 100% eligible
- Juniper Care Next-Day Ship, Delivery, Same-Day, Onsite options are partially eligible

Summary

Juniper has a proven history of innovation and technology leadership. As school districts set out to transform their legacy networks, they need to ensure that their networks are secure and highly available. At Juniper, that is what we do best, creating an extraordinary learning experience for students and cutting-edge connected classrooms for teachers and staff, with higher availability, less complexity, and lower costs.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on Twitter and Facebook.