

Educational Institutions Solutions

Enabling Excellence in Education
with ngena's edu.connect Solution



Challenge

Educational institutions, including schools and universities are facing specific challenges when it comes to network connectivity and digital transformation:



Distributed Campuses

Many educational institutions have multiple campuses or locations, making it complex to ensure secure and seamless network connectivity among them.



Sizing requirements

Each education institution has its own specific requirements for connectivity based on number of users as well as the location sizes.



Digital Learning and Collaboration

The rise of e-learning and the need for collaborative technologies require reliable, high-performance networks to support these initiatives.



Data Security and Compliance

Educational organizations handle sensitive student data and research information, necessitating stringent security measures and compliance with data protection regulations.



Cost Management

Educational institutions need to optimize their network costs while providing optimal service and educational resources.

Solution: ngena edu.connect

To address these challenges, ngena offers the EduConnect SD-WAN solution, tailored to provide the following key features:

Campus Network Integration: edu.connect leverages ngena's fast, orchestrated and automated platform to create a unified, secure, and reliable network, connecting all campuses irrespective of locations.

High-Performance Learning: The solution ensures fast and reliable access to digital learning resources and collaborative tools, enhancing the overall quality of education.

Data Security and Compliance: edu.connect incorporates robust security measures to protect student data, research information, and facilitate compliance with educational data protection regulations.

Cost-Efficient Operations: By optimizing network traffic and routing, edu.connect helps educational institutions reduce network costs while providing high-quality educational services.

Remote Learning Support: The solution provides the necessary infrastructure to support remote learning, ensuring educational continuity even during unexpected disruptions.



Results

Implementing edu.connect enables several favorable outcomes for educational institutions:

- ✓ Improved network connectivity among educational campuses enhanced communication, digital learning, and collaborative tools, improving the overall quality of education.
- ✓ High-performance access to digital learning resources and collaborative tools improves the educational experience and makes resources more reliable.
- ✓ Enhanced security protects student data and facilitates educational regulatory compliance.

- ✓ Cost-efficient network management allows educational institutions to allocate resources more strategically and support digital transformation initiatives.
- ✓ The support for remote learning ensures educational continuity during unexpected disruptions, such as the COVID-19 pandemic.

Success Stories

Large school system in the United States requires connectivity for the schools belonging to one of their districts: 11 institutes for a population of about 40.000 users. Interconnectivity requirement comprises of easy and scalable SDWAN solution with Remote Access Services available for users at corresponding locations plus mobile client connectivity.

Challenges

- Protect both infrastructure and the privacy of students and staff
- Provide students and staff with fast and reliable connectivity irrespective of their location
- Ensure stable and uninterrupted connectivity for students, teachers, and staff
- Enable connectivity to internet, cloud and internal resources as well as between the schools
- Enable mobile data connectivity

Solution

- **ngena SASE CISCO SD-WAN connection at each location with:**
 - Access lines with resilient CPEs design for maximum reliability and resilience
 - Resilient high speed internet connectivity per location
 - E2E encryption between all customer sites with Zero touch provisioning and Application agnostic path management
 - Connectivity for students with access to internet, public cloud and internal resources as well as the resources available internally at other schools/locations
 - Easy management, orchestration, delivery and change management under one hood portal provided by "ngena"
- **Remote Access Service (RAS)**
 - Cisco AnyConnect Secure Mobility for authentication services and VPN
 - Cisco Secure Firewall ASA Virtual technology for maximum security, performance and immediate deployment
 - SSO (Single Sign On) Authentication
 - Up to 15000 concurrent SSL/IPSEC VPN per location
- **Centralized orchestration and management via ngena's portal (.connect trademark)**
- **SIM cards for student tablets for mobile data connectivity**
- **24/7 Customer Support**

Conclusion

The success story of deploying ngena's edu.connect addresses the specific challenges faced by educational institutions. This specialized SD-WAN solution empowers schools, universities, and educational organizations to provide a seamless and high-quality learning experience while ensuring network security, compliance, and cost-efficiency. edu.connect plays a pivotal role in empowering education excellence and supporting the digital transformation of the education sector.

The solution presented is based on a typical industry case and may require adjustments to its architecture to meet specific requirements identified during analysis.



Are you interested
in this solution?

Contact us

to request a quote
or design together
your custom
solution!

