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# CLOUD INFRASTRUCTURE MANAGEMENT: **THE INTELLIGENT ANSWER TO EDUCATION'S QUESTIONS**

The disruption caused by the events of the past two years has seen traditional learning models be cast aside to make way for digital alternatives. Teaching styles and technologies have evolved to include digital resources and applications, personal devices, virtual learning environments, and online assessments.

This puts increased pressure on education networks to perform reliably whilst meeting security and compliance requirements and consequently has only accelerated the need for true digital transformation in many institutions.

As digital transformation takes hold across the education sector, institutions also face rising pressures to better engage with students, enhance learning experiences and, of course, improve results. With the right infrastructure, learning environments can be adapted to online and hybrid options, operations can be simplified for IT teams, and a safe and secure technology-enhanced way of learning can be provided for students and academics alike.

Cloud networking can serve as a major accelerator for this much-needed transformation. By powering a new connected and interactive learning experience for students and staff today, it can help meet the educational technology needs of tomorrow.



# Cloud Networking: four transformative benefits for education

ExtremeCloud™ IQ, created by Extreme Networks and delivered by Daisy, is an intelligent cloud network infrastructure management solution that education institutions need. Built on innovative fourth-generation cloud architecture, ExtremeCloud™ IQ offers reliability, scalability and security to address the needs of IT and network management staff, teaching and support staff, students, and visitors.

Here's how ExtremeCloud™ IQ can help educators meet core objectives:

## 1. Give students the tools they need to succeed

At an absolute minimum, today's students must have reliable, robust connectivity in order to do their work productively and securely. It's becoming more common for technology and online-based curriculum materials to be managed from the cloud, so students and staff can access any resource anywhere on or off campus at any time from multiple devices.

- ExtremeCloud™ IQ can securely manage IoT devices and support bandwidth-heavy learning applications such as video, virtual reality, and augmented reality, and ensure the deployment of these demanding applications does not affect the network performance or create security risks
- ExtremeCloud™ IQ's intuitive cloud platform based on containerised microservices gives a comprehensive overview of how your network is performing, displaying which applications are running, how much bandwidth they consume, and their usage patterns. Additionally, its infrastructure provides zero-downtime and unlimited data retention

## 2. Protect student data and safety

Safety and security are the top priorities for any institution, with IT administrators having the crucial task of safeguarding students and protecting information within the network. Giving students increasing digital freedom is essential, but the rapid increase in wireless devices joining campus networks brings increased security concerns.

- ExtremeCloud™ IQ provides a personalised login for students and ensures that devices are automatically onboarded and granted the correct level of network access. It also allows administrators to provide data encryption and logging capabilities to protect student information while satisfying specific compliance requirements
- ExtremeCloud™ IQ has proven protection in campus and remote environments and is certified to ISO 27001, ISO 27017, ISO 27701, and Cloud Security Alliance (CSA) STAR Level 1 and 2

## 3. Monitor network activities and guest access

Using personal tablets and phones is becoming the norm for students, but they open up opportunities for cyber threats if not handled appropriately. Unapproved applications and rogue devices that permit unauthorised access or interfere with other devices are a constant risk to networks.

- Through the use of APIs and interoperability with third-party solutions, ExtremeCloud™ IQ allows you to monitor all devices and applications across the network
- ExtremeCloud™ IQ provides easy onboarding of guest devices for a home-from-home experience – whether in dorm rooms, lecture halls, cafeterias or off-campus environments – and instils them with the appropriate access to Internet resources

## 4. Get invaluable insights through in-built machine learning

Visibility of application usage and activity patterns is important for optimising the user experience and ensuring full engagement with any course content. By analysing trends in the data, educators can improve the overall student experience, inform active and collaborative learning practices, and assess the learning environment's effectiveness.

- ExtremeCloud™ IQ has a massive data pool, analysing an average of 12 Petabytes of data every day with peaks of more than 40 Petabytes. It delivers rich artificial intelligence (AI) and machine learning capabilities, with unlimited data insights
- ExtremeCloud™ IQ provides IT teams with a wealth of data about client and network operation, connectivity health, faults and performance, and presents that data in a simple and informative way. Historical data is also fully accessible, enabling administrators to increase operational efficiency, improve resource management, and refine education initiatives

## Advance your learning outcomes with us

As the learning needs of students continue to evolve, the underlying network infrastructure has never been more important. ExtremeCloud™ IQ is the only fourth-generation cloud-based management platform available in the industry today and is hosted on all three major cloud platforms. It maximises data security within an institution and optimises the delivery of applications and other services to provide an unparalleled user experience – whether in-person, remote, or in a hybrid learning environment.

Daisy is the IT partner of choice for more than 100 UK higher and further education institutions, and we hold the highest level of strategic partnerships with a network of specialist partners. As an Extreme Networks Ultimate Master Partner, we are ideally placed to help you digitally transform – to drive a more enriched, personalised, and engaging learning experience and improve learning outcomes.

From design and scoping to full operation, we work with you to help you get the most from your investment. With both Daisy and Extreme on hand, you'll have ongoing, award-winning support thereafter.



Talk to us about your requirements and how we can help:

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