



High Availability Prerequisite for
Positive Student Outcomes

Smart Enterprise Solutions for Education



Providing is Preventing

Have you invested in reliability?

NEC high availability solutions empower administrators and faculty to deliver uninterrupted quality education to students.

Market Trend

New learning opportunities are shifting conventional boundaries surrounding the academic experience. The growing popularity of non-traditional classroom alternatives has motivated schools to view their IT system as a strategic differentiator, enhancing their educational offerings. Applied educational experiences and advanced mobile technologies are improving teaching effectiveness and learning outcomes. Cloud computing, big data, social media and mobile apps are empowering administrators and educators to enhance and broaden the learning experience. The proliferation of digital media promotes instant communication shaping the perspectives of students, parents and educators. Access to advanced technologies plays a role in attracting and retaining the best teaching and administrative teams, and strengthening a school's reputation.

Distance learning online has extended the reach of student access to quality education, and given schools the ability to offer MOOC (massive open online courses) without classroom size limitations. These sessions include not only traditional course materials, such as lectures, resource materials and testing, but also interactive student forums that support collaboration between students and educators.

The need for academic flexibility requires information to be highly available, as well as secured and managed consistently for privacy and liability concerns. Obsolete legacy systems may lack the necessary security and data protection, and can be costly and time-consuming to maintain.

Challenges: New Requirements

Students, parents and the community rely on schools to deliver high quality education to prepare the next generation for fulfilling lives and careers. Kindergarten through college, institutions are facing new requirements for effectiveness, compliance and accountability. Learning assessments of students, teachers and schools evaluate their performance and have a considerable effect on the school's reputation.

Academic institutions are confronting a time of significant change. Traditional education models, business processes and student engagement methods continue to evolve. Administrators and educators have a tremendous opportunity to enrich the academic experience, enhance communication and collaboration, and contribute to the future success of their students.

Identifying the Risks

A stable and secure environment is necessary to ensure that students, educators and administrators remain focused on their main objectives of learning and teaching. IT infrastructure now plays a fundamental role in education, so preventing system interruptions have become critical.



Invest in Reliability

Mobility is key for students, educators and administrators to stay connected and access learning resources, on and off campus. Interrupted access to information, courses or applications can directly impact operational and training effectiveness. Uninterrupted workflows are essential for educators and administrators to collaborate with each other to support students efficiently.

Another concern is campus safety. Security systems, such as building access control, video surveillance and emergency notification systems must remain operational to safeguard the premises.

Competing demands for bandwidth, network availability, and access to applications require an unflinching foundation that preserves uninterrupted operation of the learning environment.

Unparalleled High Availability from NEC

NEC's dependable high availability solutions actively prevent downtime. Potential problems can be detected and proactively addressed before loss of access to critical applications, instruction or data.

Beyond hardware, software or network failures, temporary system outages of legacy systems can often occur during planned maintenance and upgrades. System disruptions can also result from unexpected natural disasters or fire.

NEC offers smart integrated solutions that address these issues and nearly eliminate interruptions resulting from planned and unplanned downtime. High availability solutions from NEC provide wide coverage to monitor potential points of failure. Designed to address the stability demands of academic institutions, NEC's high availability solutions can be tailored to the unique needs of most environments.

Benefits to All Stakeholders

Administrators and Educators:

- NEC's high availability solutions enhance the productivity, efficiency and accountability of academic institutions.
- A stable infrastructure for educators, administrators and students is essential for a high level of student engagement.
- Investment in a high availability solution costs far less than dealing with "fire drills" to manually correct critical system failures. The cost of adopting a high availability solution should be assessed against the risks of interrupted education forums or campus security systems.

IT Managers:

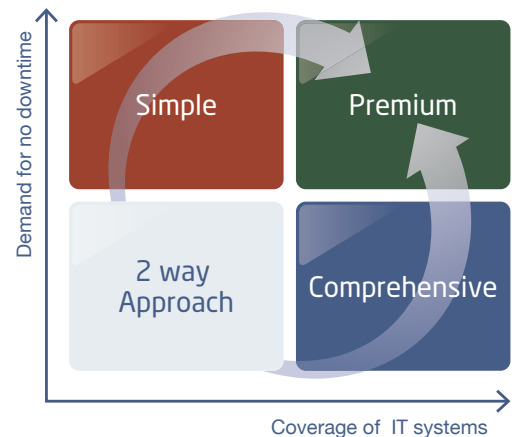
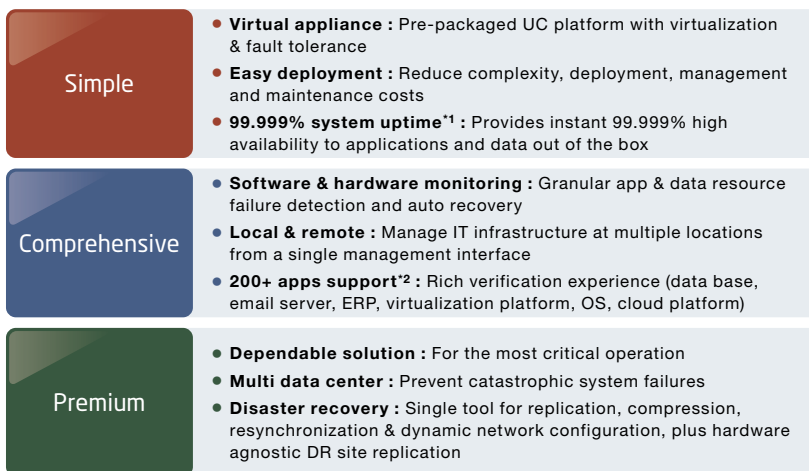
- For IT managers who desire fast and easy solutions to handle complicated recovery systems, NEC's high availability options offer a starting point by simply applying hardware solutions.
- To monitor the point of potential failure over a wide area, NEC offers comprehensive software solutions to layer on top of the hardware for even greater protection.

Students:

- NEC's high availability solutions support positive outcomes for students by ensuring that critical resources are available when they are needed.
- An empowered learning environment enables students and educators to concentrate on the curriculum, while parents and administrators focus on academic objectives.

With a wide range of IT technologies and over 100 years' experience in the IT industry worldwide, NEC Smart Enterprise Solutions for education enhance the student learning experience, empower educators and administrators, and streamline business operations of managing academic enterprises.

NEC's flexible choice to start high availability solutions



*1 An average of less than 6 minutes downtime per year. This is a theoretical value calculated by NEC. The actual availability of any particular system may differ. *2 Verification experience with 200+ applications as of April, 2016.

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