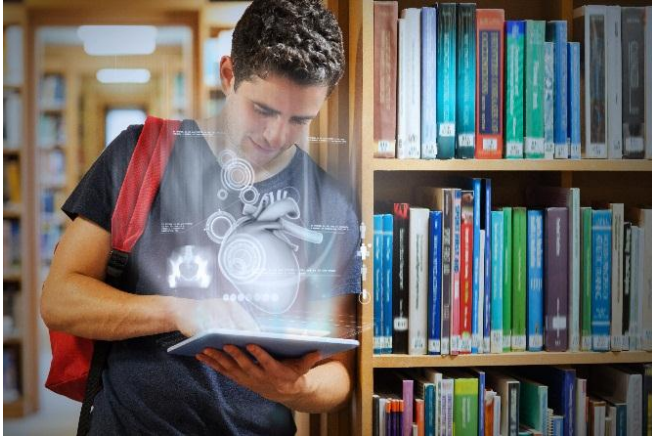


The Trust You Need in a Big BYOD World

Access Management for Large Institutions



IT Security Challenges Magnified by High Student Population

Gartner, Inc. forecasts that by 2020 there will be more than 20 billion “things” connected to the Internet.¹ Today alone, over 5.5 million *new* things will connect. And the early adopter personalities of higher education means that a high percentage could be on your campus.

Nearly everyone owns a smartphone, laptop, and/or tablet—which has created the need for security policies and network access controls to support the escalating volume and diversity of personally-owned mobile devices that are accessing sensitive internal applications and data resources. As the Internet of Things (IoT) continues to grow at an exponential rate, those risks are increasing.

An everyday challenge for IT managers is enforcing security compliance policies and network access privileges while maintaining a positive user experience and reducing help desk support calls. This challenge is magnified exponentially with high student populations.

SafeConnect automates device security compliance and network access assignment policies (based on identity/role, device type, location, and ownership); and gathers a wealth of real-time and historical context-aware device information that allows for more timely and informed security decisions.

What SafeConnect Does

SafeConnect™ is a context-aware network access control solution that provides the visibility needed to know exactly *who* and *what* is on the networks and the ability to enforce

mobile computing policies—especially on campuses with dense populations.

Device and User Identity is confirmed by SafeConnect’s device registration module for identifying, registering, and monitoring personal (aka BYOD) devices across organizations and their networks. Automating network authentication and access management, this module correlates mobile device type, identity, location, and ownership.

Secure BYOD On-Boarding is a cloud-based auto-provisioning module that configures devices for secure wireless WPA2 Enterprise access. By eliminating manual configuration, the solution delivers a reduction in help desk support calls and dramatically accelerates user adoption of secure wireless.

Security Policy Enforcement includes flexible, real-time enforcement for devices including audit-only, periodic grace-period, warnings and network quarantine.

Guest User Self Provisioning allows guest access *without* help desk support by allowing administrators to configure multiple guest self-provisioning profiles to control access; approval and notification; and guest account duration requirements. Administrators can choose from multiple approval methods, depending on the level of control required and the requirements of each profile.

How SafeConnect Does It

Automated User Experience. SafeConnect’s user interface tools are intuitive and offer extensive automation capabilities including a no agent option, self-remediation instructions, simplified configuration for WPA2 Enterprise and 802.1X secure access and device bypass for gaming machines.

Non-Intrusive Network Design drastically simplifies the enablement of network security, control and intelligence. Network components are independent and agnostic, which allows the system to manage public or privately addressed sub-networks and VLANs whether their topology is wired, wireless, or VPN. No changes to the network are required for implementation or operation. With Impulse solutions network administrators do not have to consider switch compatibility, VLAN configurations or port settings, which significantly eliminates solution complexity and ongoing management demands.

24x7 Proactive Maintenance and Support Services.

SafeConnect is supported by the industry's most comprehensive implementation and support services agreement. Impulse will provide continuous (24/7) proactive monitoring and support that includes hardware and software problem determination and resolution support, as well as upgrade protection to future software functional releases.

Daily System Updates and Backup backups are included which enables restoration and delivery of a replacement system within 24 hours.

Free Software and Hardware Upgrades. Impulse does not assign an "end of life" to the product or appliance. When additional functionality is integrated into the software, or if the appliance needs an upgrade, the company will simply forward the updated software or appliance at no charge as long as you remain under maintenance.

Featured Use Cases

Impulse has extensive experience in remotely implementing and deploying SafeConnect for large, distributed organizations. Our ability to centrally manage security policies from a single location across multiple campuses is especially important for high volume, complex and distributed environments.

University of California at Los Angeles. UCLA wanted a user-friendly and intuitive NAC solution for students including self-service for agent installations and remediation and centralized management on a single appliance to handle wired and wireless connections for their staff, guests, and residential networks. Previously, when deploying another NAC solution, UCLA logged more than 2,700 help desk requests during a semester move-in weekend. After switching to SafeConnect and rolling it out to 10,000 students in two days, there were only 174 calls, a 93% reduction in help desk calls.

Northern Arizona University. Infrequent and time consuming product updates from a previous NAC solution meant that students using brand-new operating systems and anti-virus software had to be exempted from security policies—creating a significant security gap and undesirable end user experiences. Additionally, the solution ran on 21 separate servers. NAU simultaneously doubled its NAC capacity and greatly reduced the administration requirements for its IT staff. Now running SafeConnect on just three servers (instead of 21), NAU's IT staff and students are reaping major new enhancements and benefits:

- 50 hours/month reclaimed for IT staff on NAC administration and maintenance
- 20-30 hours/week reclaimed for student help desk workers due to improved solution design
- 50% reduction in NAC-related help desk calls during back-to-school (move-in) week
- 97% reduction in wait time (from 90 days to 2 days) for support of new software and devices
- Doubled NAC capacity to support 20,000 devices while reducing server count 7-Fold (from 21 to 3)
- 86% reduction in power/cooling energy costs
- Eliminated 10 hours of unplanned downtime per month

University of Florida. UF needed a NAC a vendor who could provide a common user experience for an entire campus as large and diverse as the UF community—which included the existing residential network, the campus-wide wireless network and the Shands Hospital Medical Center. Users not in compliance with security policies receive individualized web-based policy notifications regarding the reason for non-compliance (e.g. out of date anti-virus protection) and are guided through a remediation process with instructions and a link to an internal or external source where the appropriate software or virus definition can be downloaded. SafeConnect helped UF reduce security events on unmanaged devices by 92%. University of Florida's network administrators and support staff benefitted from SafeConnect's 802.1X/WPA2 Enterprise on-boarding module which made it simple and fast for users to get their systems configured and connected without generating a support call.

Boston University. Currently using SafeConnect for their wired residential network, as well as their guest wireless network, BU intends to extend the product to their conference services department for pre-registration of event attendees.

Many other large institutions such as University of Colorado at Boulder, The University of South Carolina at Columbia, and the University of Nebraska-Lincoln are discovering the same value. Discover how SafeConnect can enable a secure, device security solution with minimal resources from IT, greatly reduced help desk calls, and a phenomenal user experience.

Impulse | Experience the Freedom

Impulse is the leading provider of Contextual Intelligence™ and access control solutions in support of BYOD-friendly enterprises. Impulse securely and efficiently automates BYOD by combining our real-time, context-aware and simplified architecture, remote managed support services and customer-centric business philosophy to enable customer freedom. Our customers know this as the Impulse Experience. The security of more than four million endpoints is entrusted to Impulse. Visit www.impulse.com