

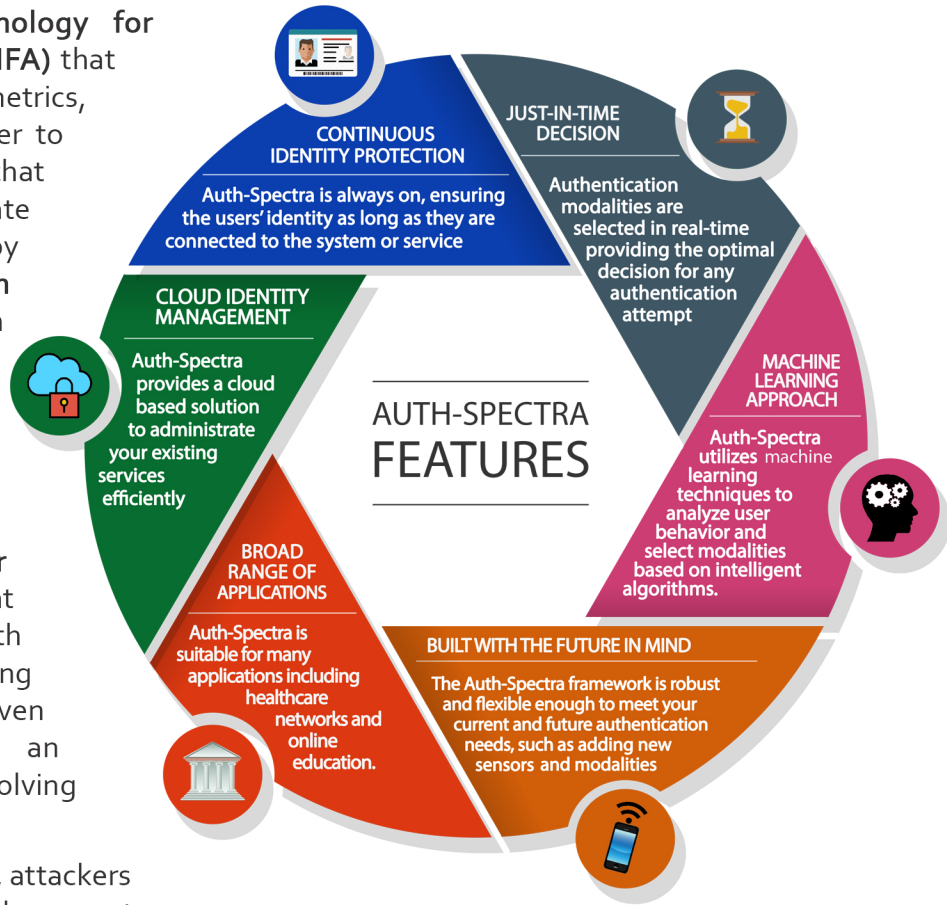
AUTH-SPECTRA

INNOVATIVE MULTI-FACTOR AUTHENTICATION SOLUTIONS

Auth-Spectra is a patent-pending technology for Adaptive Multi-Factor Authentication (A-MFA) that uses a combination of passwords, biometrics, cognitive behavior, and other factors in order to create a trustworthy authentication system that intelligently selects the most appropriate authentication factors. A-MFA does this by selecting modalities based on the device in use and surrounding conditions, which provides the perfect balance between powerful security and low-maintenance usability. That creates a secure, highly confident authentication framework that you can trust.

The University of Memphis Center for Information Assurance is a nationally designated Center for Academic Excellence tasked with creating innovative solutions with long-lasting applications. With dedicated, University-Driven academic research we have developed an authentication solution to address the ever-evolving cyber-security landscape.

As devices are becoming more interconnected, attackers are finding increasingly clever ways to breach computer systems, costing time and money. Auth-Spectra provides an efficient technique to combat such threats.

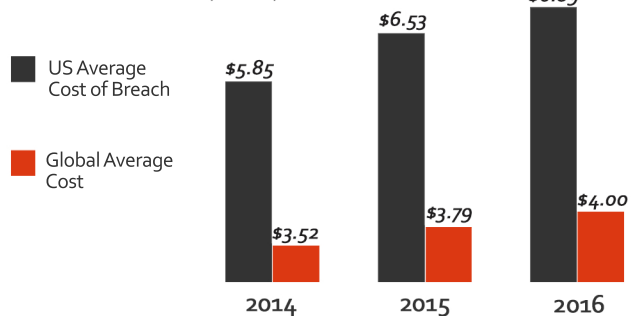


TIME-VARYING AUTHENTICATION TRIGGERING EVENTS

User Environment Conditions	Fixed Wireless	Portable Wireless	Portable Wired	Fixed Wired
Device/Media Type	Fixed Wireless	Portable Wireless	Portable Wired	Fixed Wired
Selected Authentication Factors	Handwritten Password, Fingerprint	Handwritten Password, Biometric, Key	Handwritten Password, Biometric, SMS	Handwritten Password, Biometric, Key
Time	T ₀ Initial Login	T ₁ Device Changed	T ₂ Media Changed	T ₃ Location Changed

AVERAGE COST OF DATA BREACH IN MILLIONS

Source: Business Insider, March, 2016



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