

# Joint Solution Brief



# Security is Imperative for Enterprises to Operate and Compete in Today's Hyper-connected World

The cloud is ubiquitous because it has simplified development and automation exponentially over the years, and emerging tech such as AI and IoT will only accelerate this.

The catch though, is that the very same foundational architectures which drive the cloud's efficiency, flexibility and cost benefits also serve as its weakest links from a security perspective. The result is the daily march of headlines we all read about - with ever larger and deeper breaches of data and systems.

When it comes to authentication, two areas are particularly challenging.

**Weaknesses of Credentials** - we are all familiar with the challenge of managing and tracking our usernames and passwords - even worse, these are an invitation for business email compromise, fraud, phishing and other malicious attacks. While enterprises are migrating to passwordless solutions, traditional MFA still uses weak, vulnerable factors like SMS and Email.

**Lack of Context-Aware and Verifiable Zero Trust** - User self-identification and authorization are a baseline necessity for any enterprise today and are sufficient for many use cases and needs, but vulnerable to determined attackers when the resource being protected is very high value. The need to have fool-proof identity verification that is automatically triggered based on context is vital.

## But Frictionless User Experience is Essential to Engagement & Productivity

Current approaches to secure authentication - such as traditional MFA and hardware tokens - add login friction for end users and complexity for IT. This in turn results in poor engagement, increased costs and reduced productivity.

The Auth0 Identity Platform is cloud-native and adaptable, created with extensible building blocks to address any app and development teams' use case now, and in the future. Organizations can manage the complexities of today's identity use cases, while also delivering a customized balance between security, privacy, and convenience for their end users.

Circle API integrates with Auth0 to offer a seamless secure experience for a consumer's digital identity. An end users identity is verified and tied to their device through a combination of biometrics and cryptographic binding. The user experience is streamlined to provide frictionless authentication that is both credential-free and continuous.

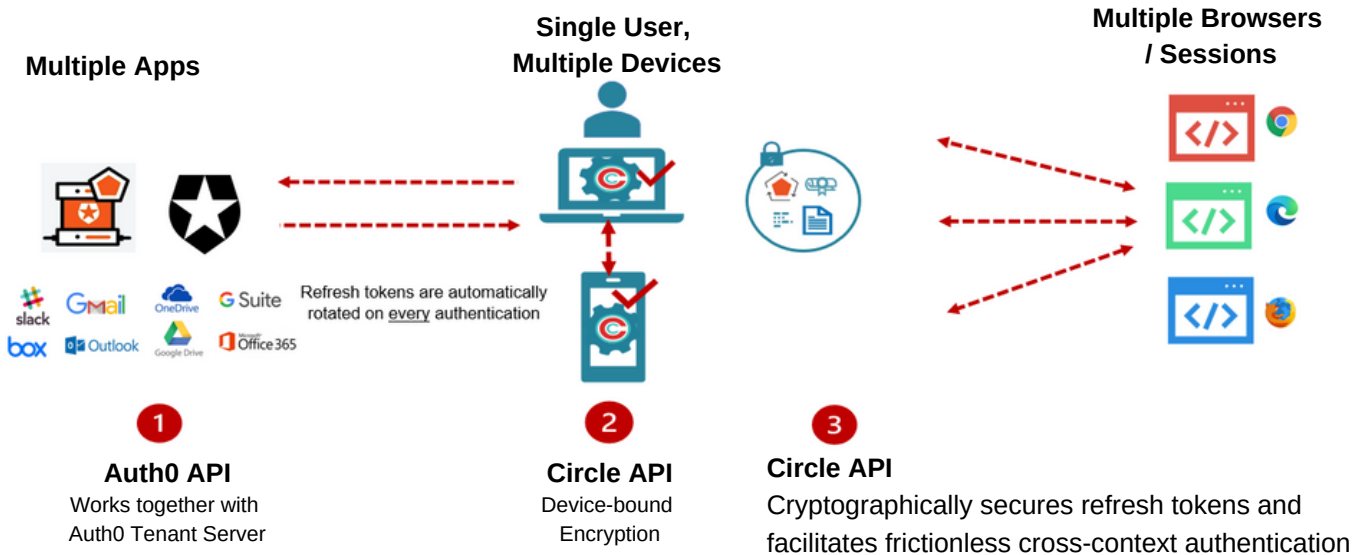
With Circle, there is no need for a user to locate a 2nd device, fish out a code or link, continually follow tedious two-step authentication processes, choose lengthy passwords or change them every 90 days. Also gone are forgotten password lockouts or help desk password resets.



# Circle augments Auth0 capability in 2 powerful ways, enhancing both security and user experience

## 1 Credential-free authentication across Browsers, Applications, Devices and Contexts

Continuous frictionless authentication of a single unique user across multiple devices, browsers, sessions and contexts without the need for a VPN, 3rd party cookies, usernames or passwords.



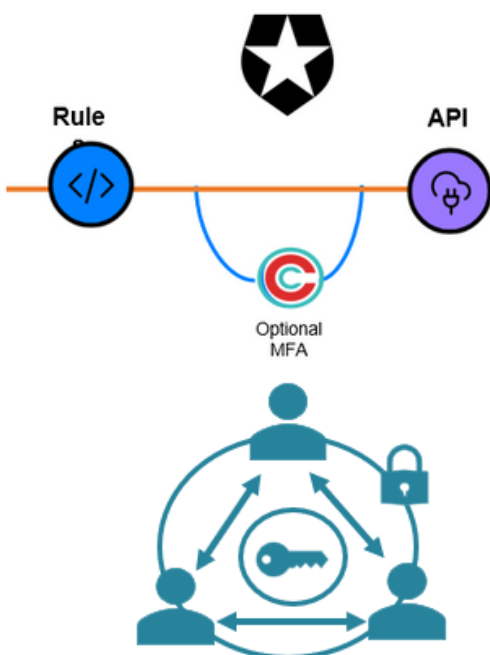
Circle delivers unrivaled credential-free authentication by combining:

1. **Something you have** - a private AES 256 key cryptographically fused to an authorized device; and
2. **Something you are** - continuous biometric authentication tied to device context

## 2 Delegated MFA + Identity Verification powered by Circle-of-Trust™

Based on the context and policies set by Auth0 Actions or the application, Circle can execute multi-factor authentication and identity verification that is delegated to authorized administrators who can re-authenticate the end-point device access as well as verify the end user identity.

This breakthrough Human-in-the-Loop™ delegated MFA is available as a step-up zero-trust re-authentication when needed for high-risk use cases, contexts, and user behaviors.



# Rapid Implementation, Effortless Maintenance

Any website or application developer can add Circle to an existing Auth0 integration in 3 easy steps



## Get Registered with and License from Circle

Free trial, sign-up with credit card.  
Get license key to activate use of API.



## Add Auth0 Credentials to Circle API

Copy your account credentials from Auth0 to use with Circle API



## Integrate Circle Sample Code

Get the code sample in "Get started with Auth0" from the Circle website and embed in your authentication calls as indicated

# Users Opt-in and Onboard in Minutes

Once Circle + Auth0 APIs are integrated, end users just install Circle Service to enjoy credential-free authentication



1

## Users Install Circle Service

Lightweight thin client, install 1x & forget



2

## Users Authenticate

No more passwords or credentials! Your device is your log-in, with user identity cryptographically bound to it. More secure than traditional MFA or Hardware Tokens, with frictionless, credential free UX.



3

## Done!

(Optional)



4

## Users Add Circle-of-Trust

For Users and Customers that want delegated multifactor unspoofable human-in-the-loop authentication



# Summary of Benefits

**Radically improves security powered by zero-trust and credential-free technology**

- Eliminate phishing, spoofing and any other threats from compromised, stolen or lost credentials
- Reduce the attack surface from Cloud
- Prevent fraud and deliver digital trust

**Dramatically improves user experience**

- Enable frictionless credential-free access with no usernames/passwords to remember
- Deliver cross-context authentication automatically across devices and browsers
- Improve customer engagement and satisfaction

**Substantially reduces IT and support overhead**

- Eliminate password reset and recovery help tickets.

## About Circle

Circle is reimagining cybersecurity. Using a patented transformative technology Circle cryptographically secures identity, data and privacy for third-party applications using a single unified API. Using Circle, developers and enterprises can easily integrate credential-free identity authentication, unrivaled data security, and unmatched privacy protection capabilities into their applications, APIs, or IoT devices without compromising user experience. For more information visit [www.gocircle.ai](http://www.gocircle.ai)

## About Auth0

Auth0 solves the most complex and large-scale identity use cases for global enterprises with our extensible and easy-to-integrate platform, securing billions of logins every year. With a mission to secure the world's identities so innovators can innovate, Auth0 provides the simplicity, extensibility, and expertise to scale and protect identities in any application, for any audience. For more information visit [www.auth0.com](http://www.auth0.com)

