

An AppAuth (RFC 8252) Gateway For The Spanish SIR2 Federation

José-Manuel Macías
<https://keybase.io/macias>

About AppAuth

Internet Engineering Task Force (IETF)
Request for Comments: **8252**
BCP: 212
Updates: 6749
Category: **Best Current Practice**
ISSN: 2070-1721

W. Denniss
Google
J. Bradley
Ping Identity
October 2017

OAuth 2.0 for Native Apps

Abstract

OAuth 2.0 authorization requests from native apps **should only be made through external user-agents, primarily the user's browser.** This specification details the **security and usability reasons** why this is the case and how native apps and authorization servers can implement this best practice.

RFC 8252

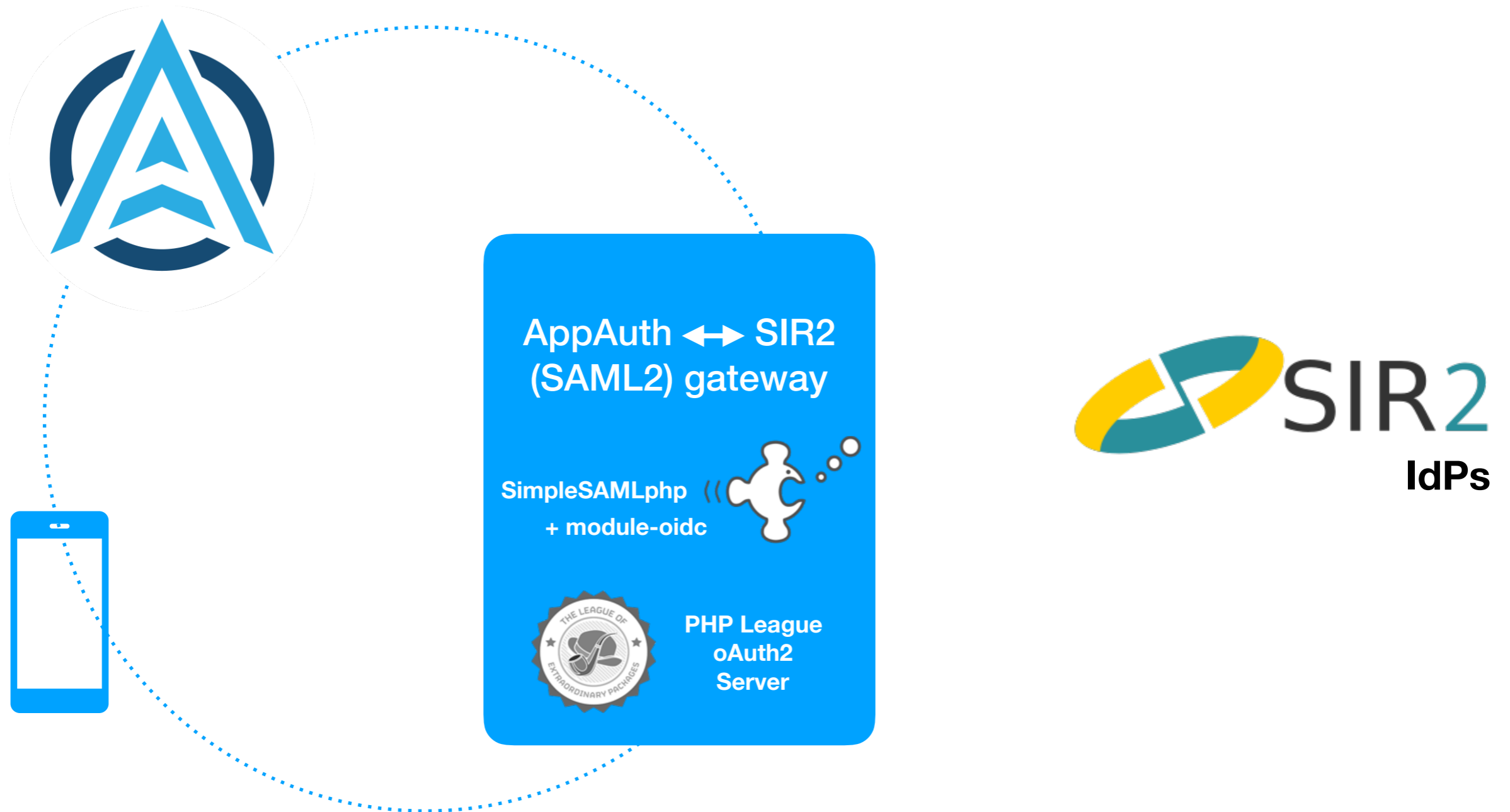
Proof Key for Code Exchange by OAuth Public Clients

Abstract

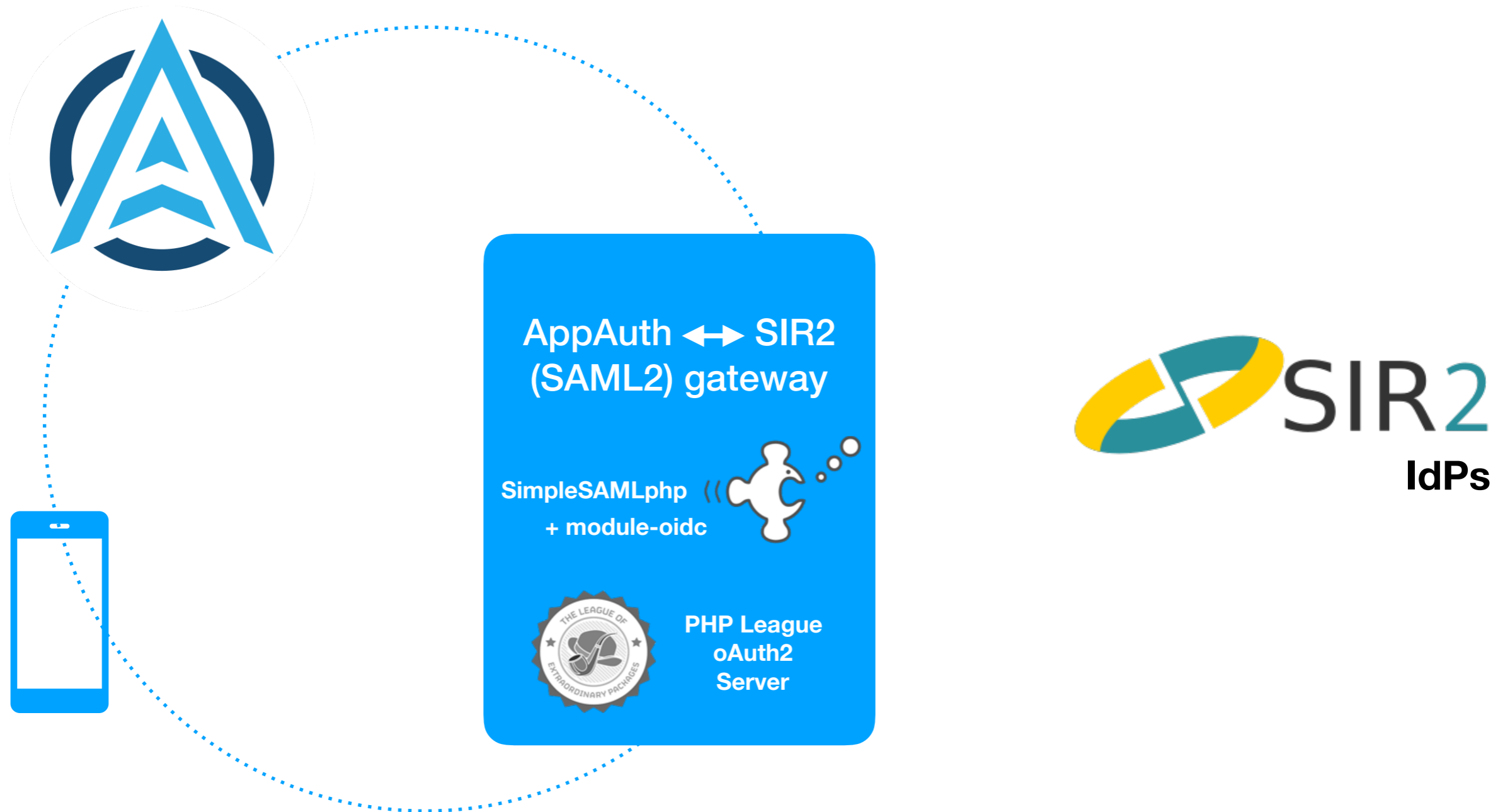
OAuth 2.0 public clients utilizing the Authorization Code Grant are susceptible to the authorization code interception attack. **This specification describes the attack as well as a technique to mitigate against the threat through the use of Proof Key for Code Exchange (PKCE, pronounced "pixy").**

RFC 7636

Authentication Flow



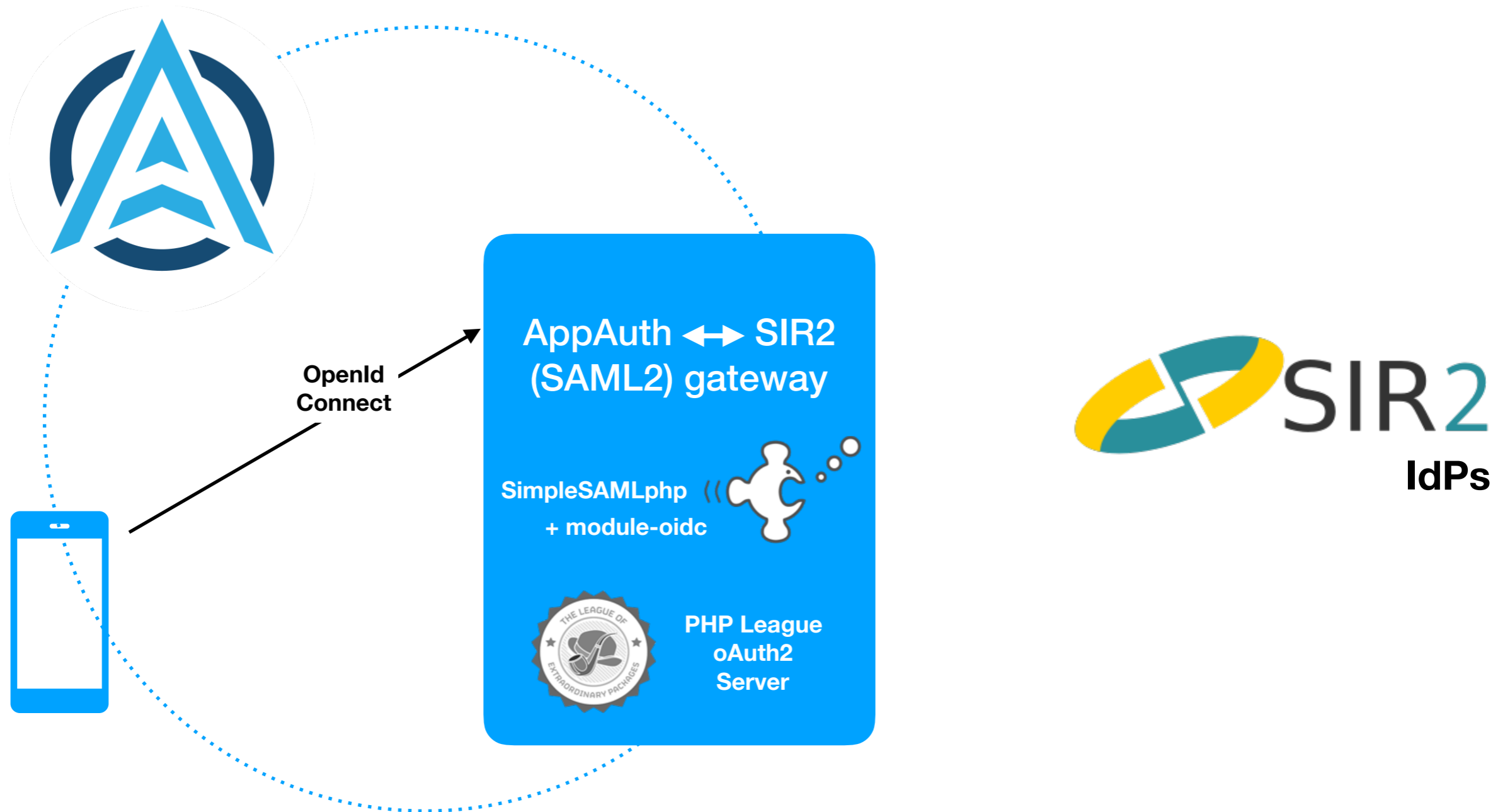
Authentication Flow



discovery_url: `https://appauthgw.sir2.../.well-known/openid-configuration`

redirect_URI: `es.rediris.sir2.appauth-demo://oauth2redirect`

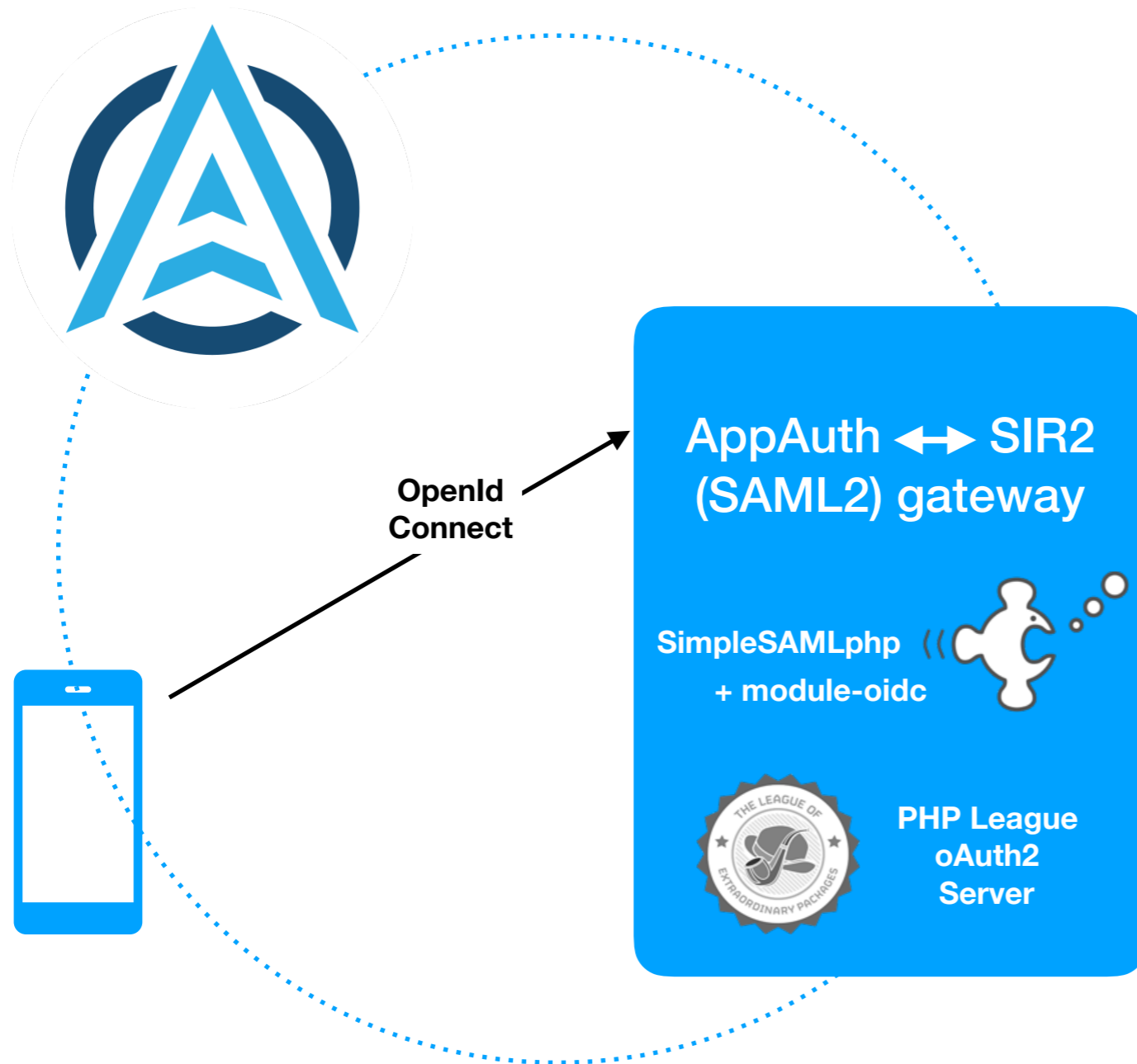
Authentication Flow



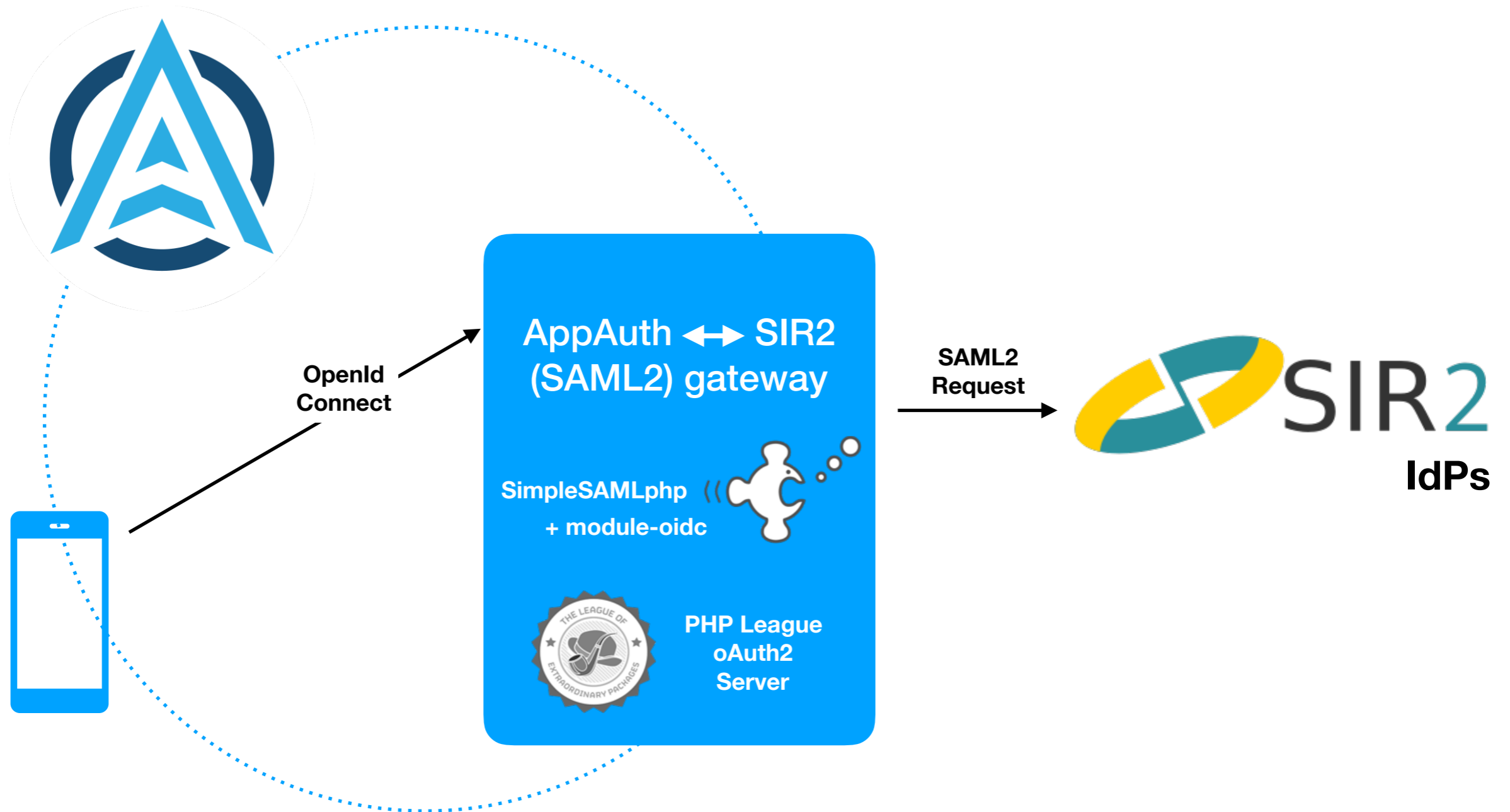
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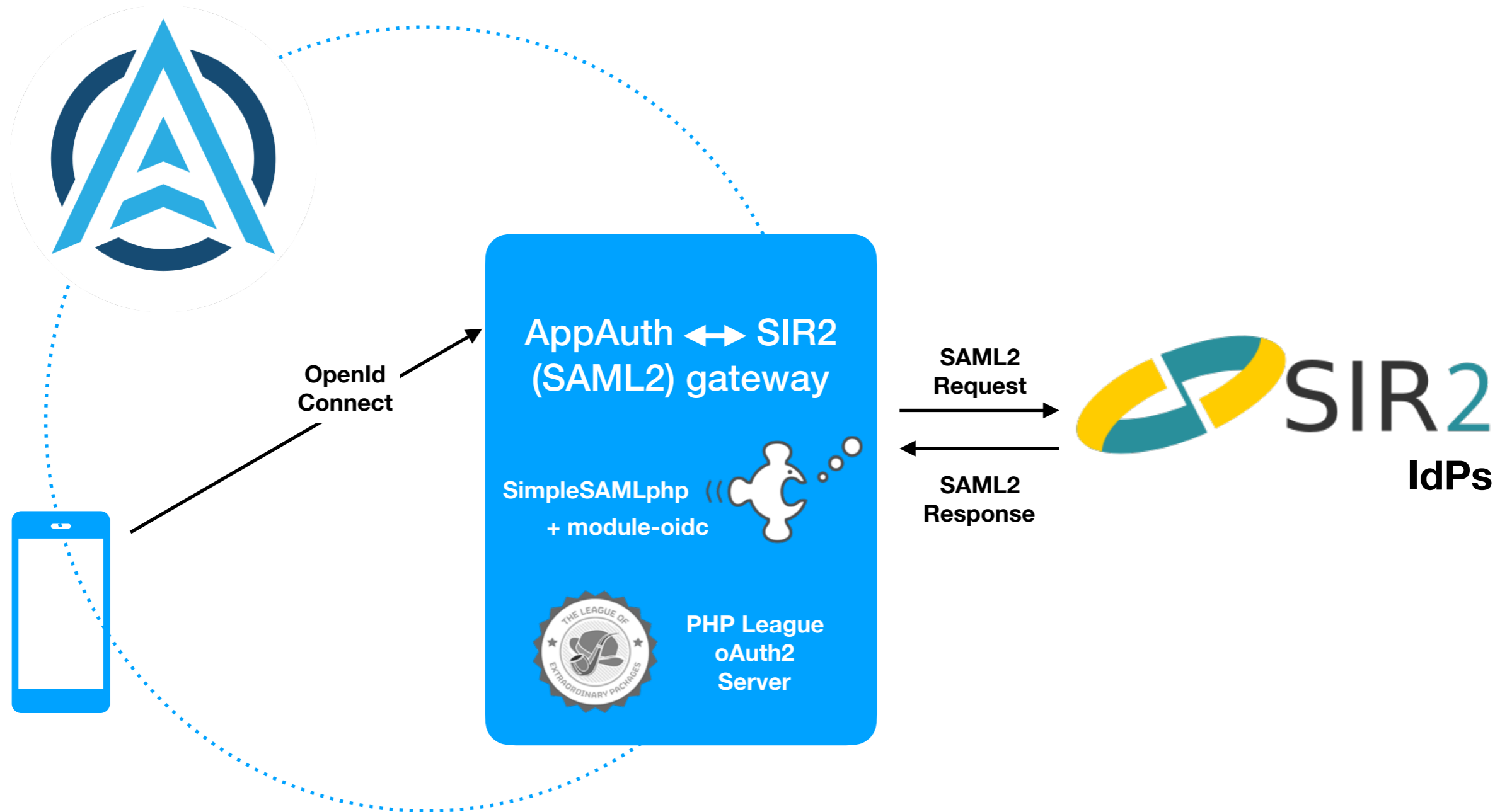
Authentication Flow



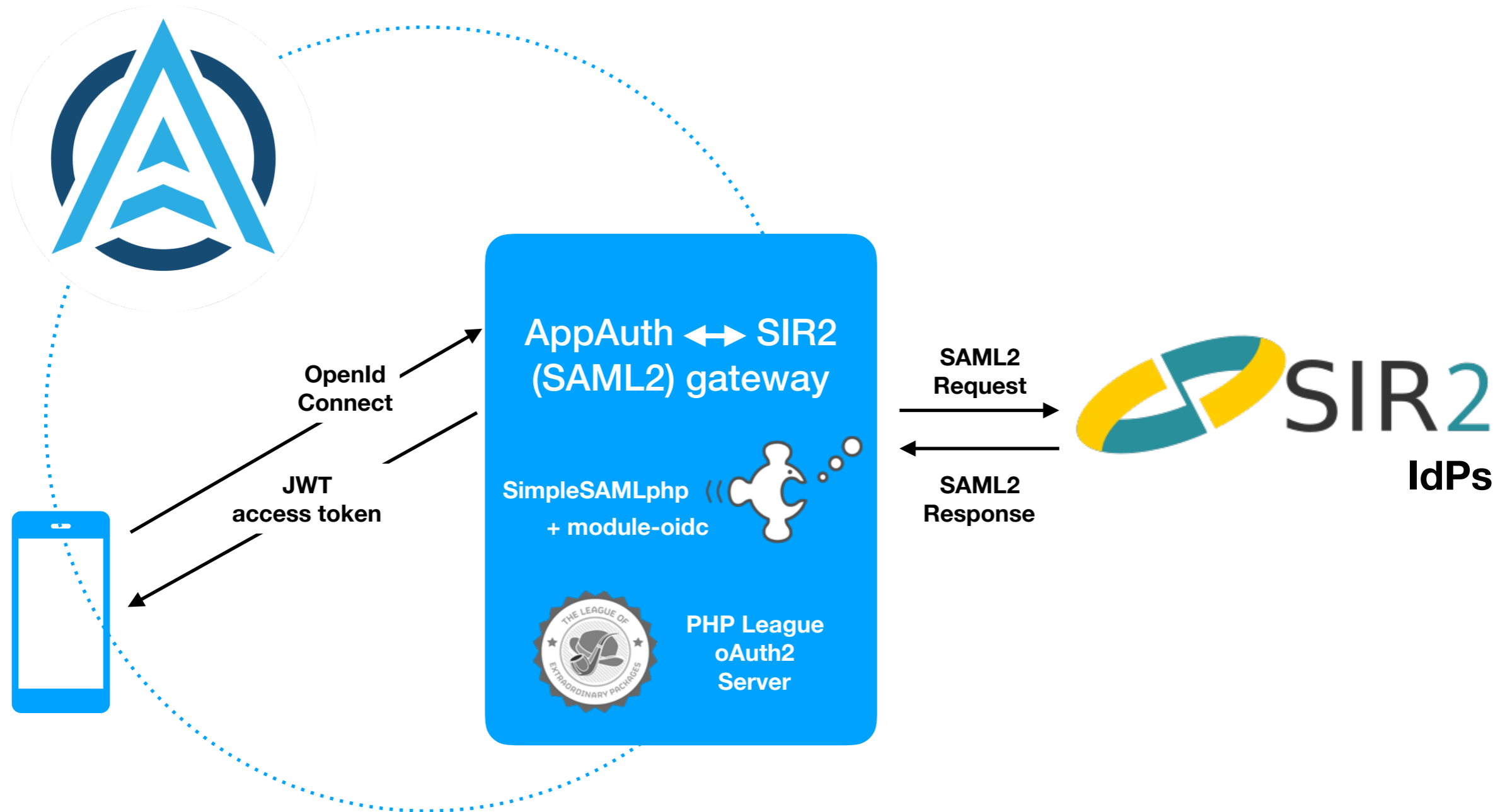
Authentication Flow



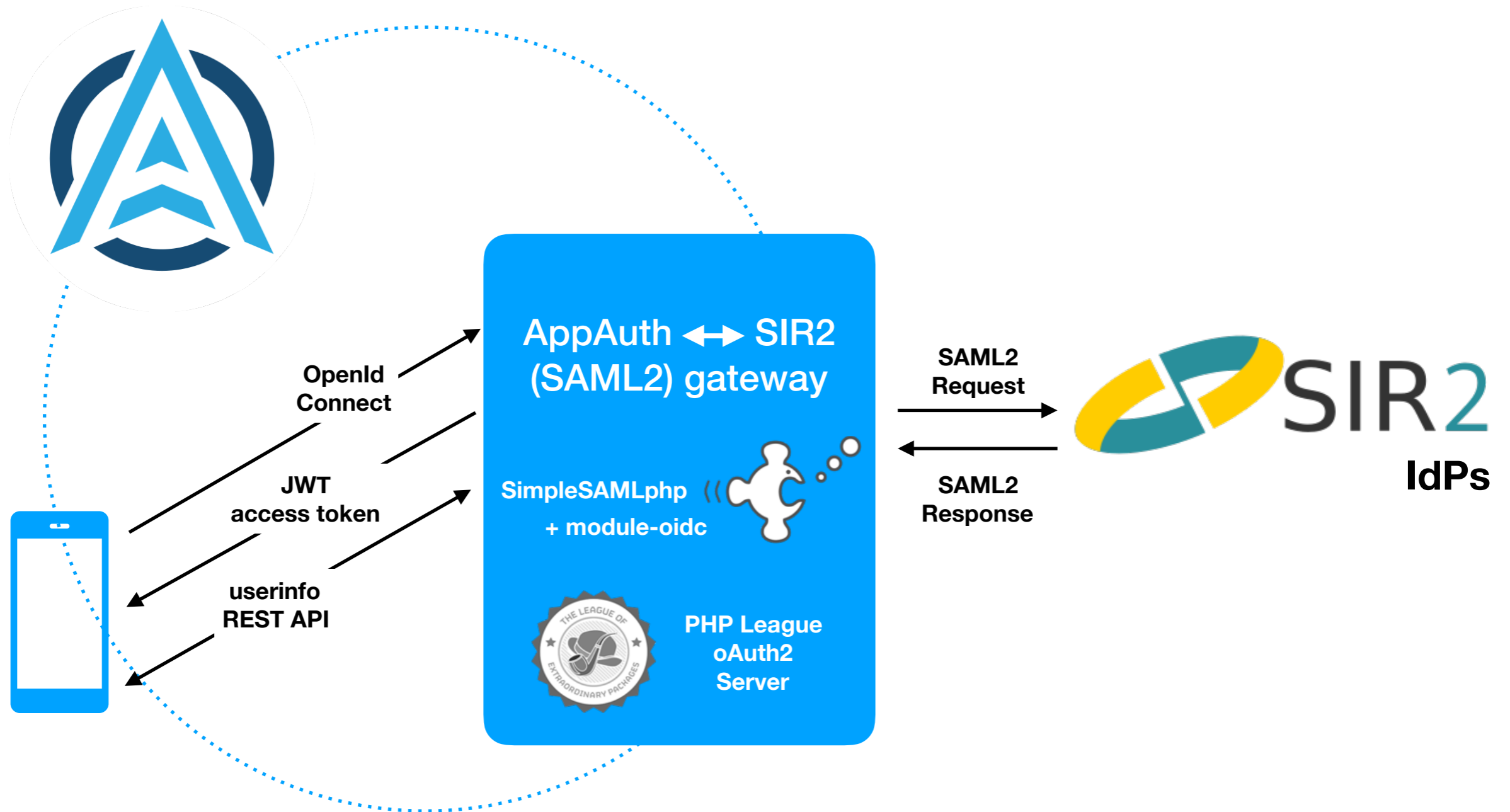
Authentication Flow



Authentication Flow



Authentication Flow



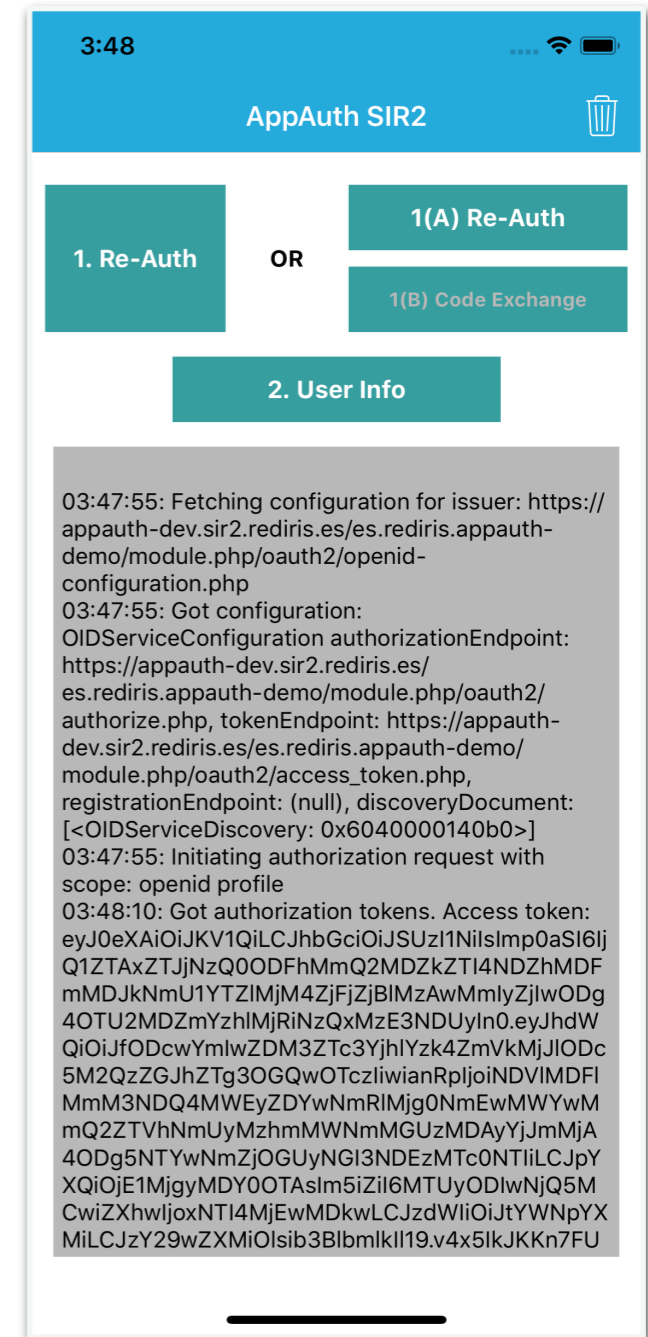
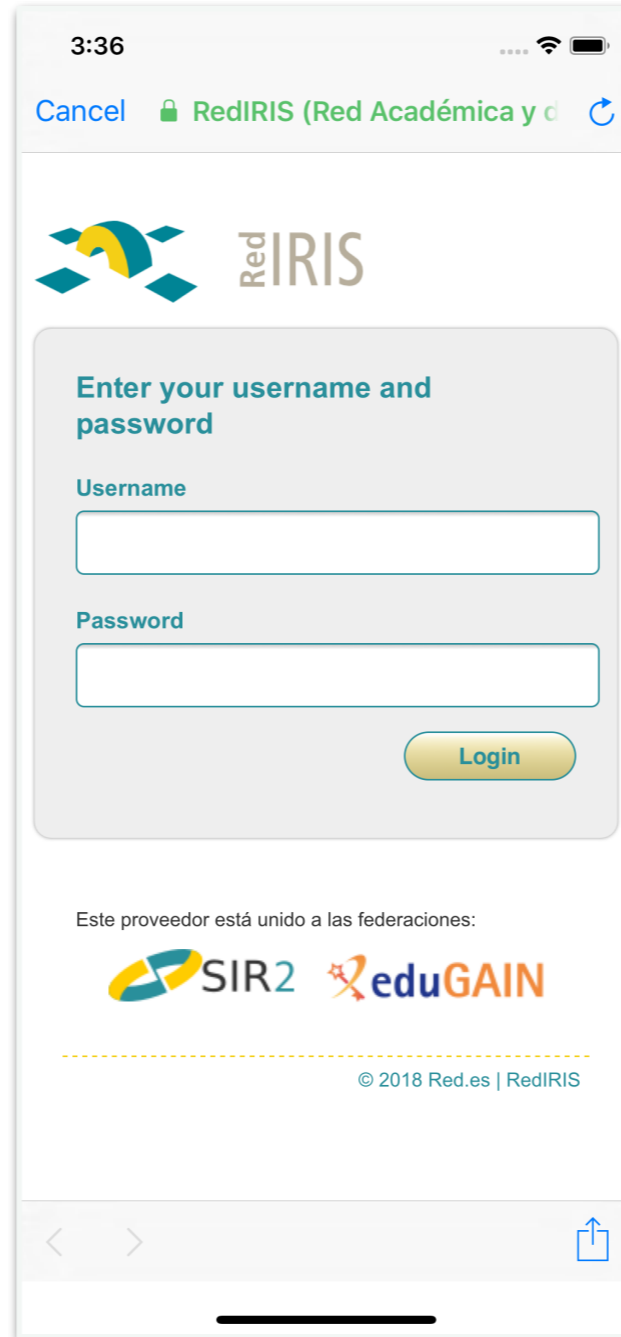
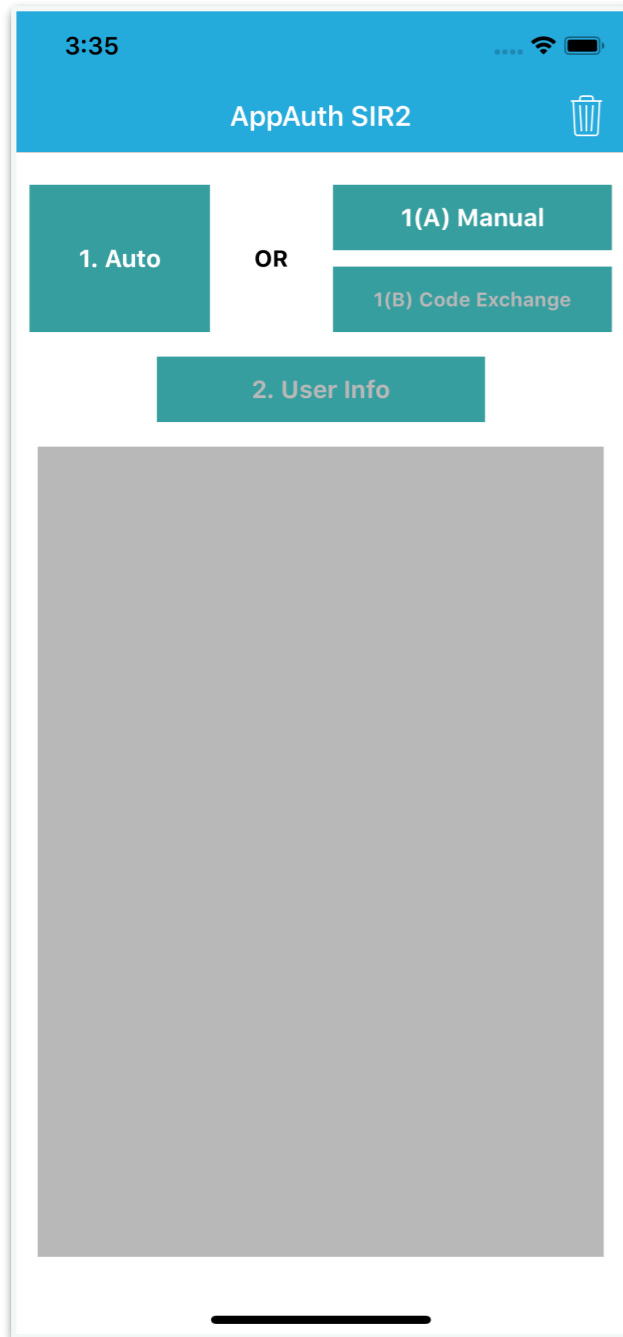
implementation details

- SimpleSAMLphp with module-oidc by Sergio Gómez
 - <https://github.com/rediris-es/simplesamlphp-module-oidc>
- The module uses PHP League's OAuth2 Server by Alex Bilbie et al.
- We recommend the [appauth.io](https://github.com/appauth) library for the clients

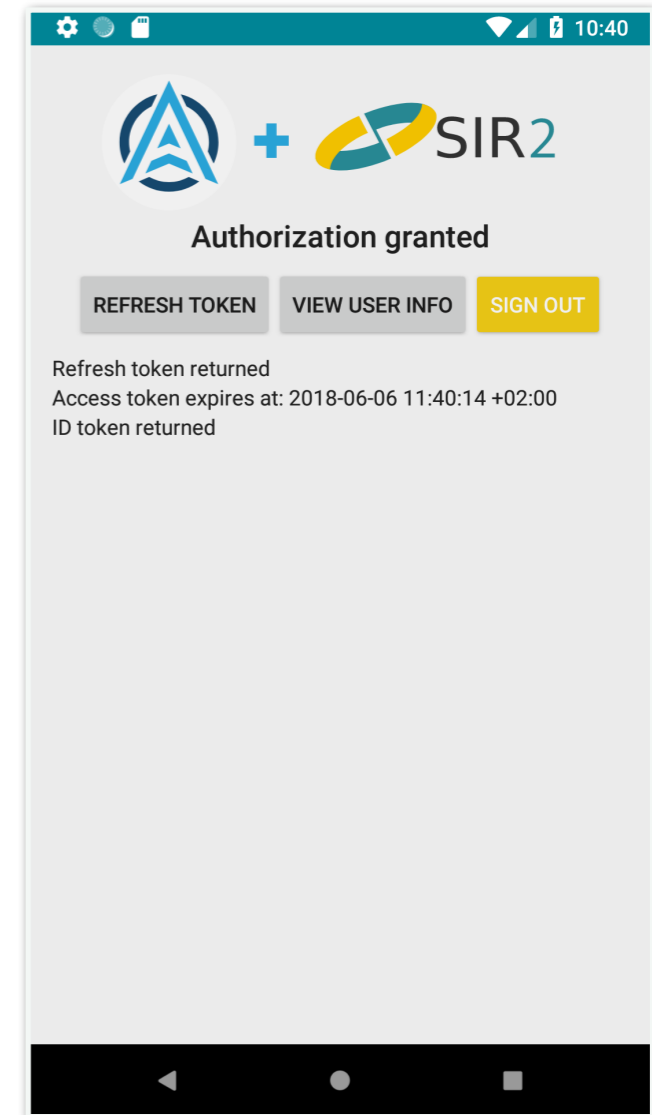
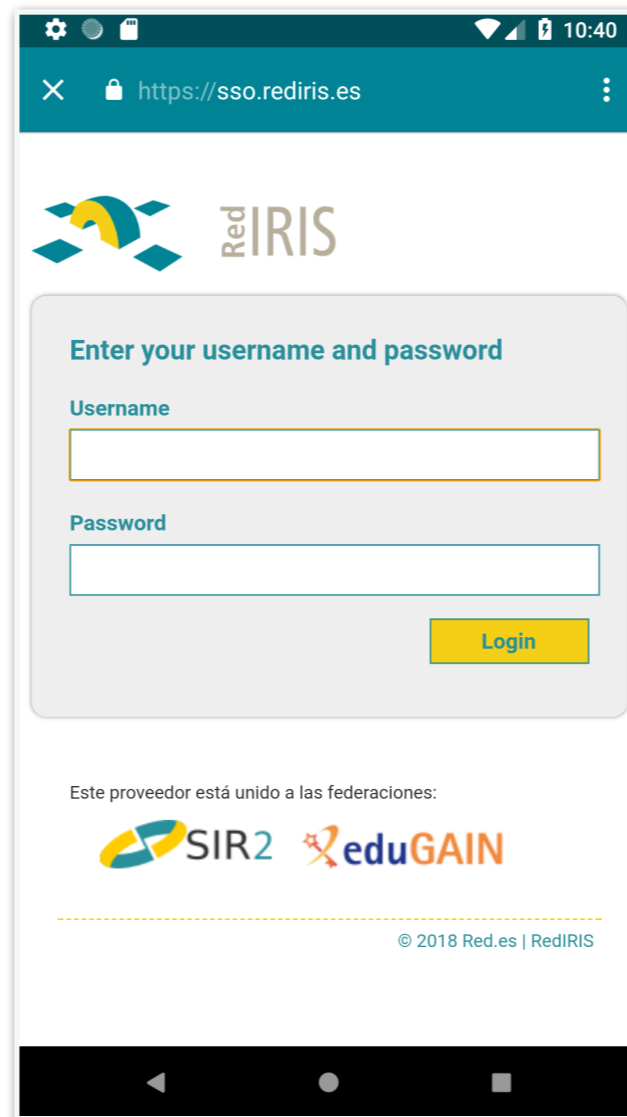
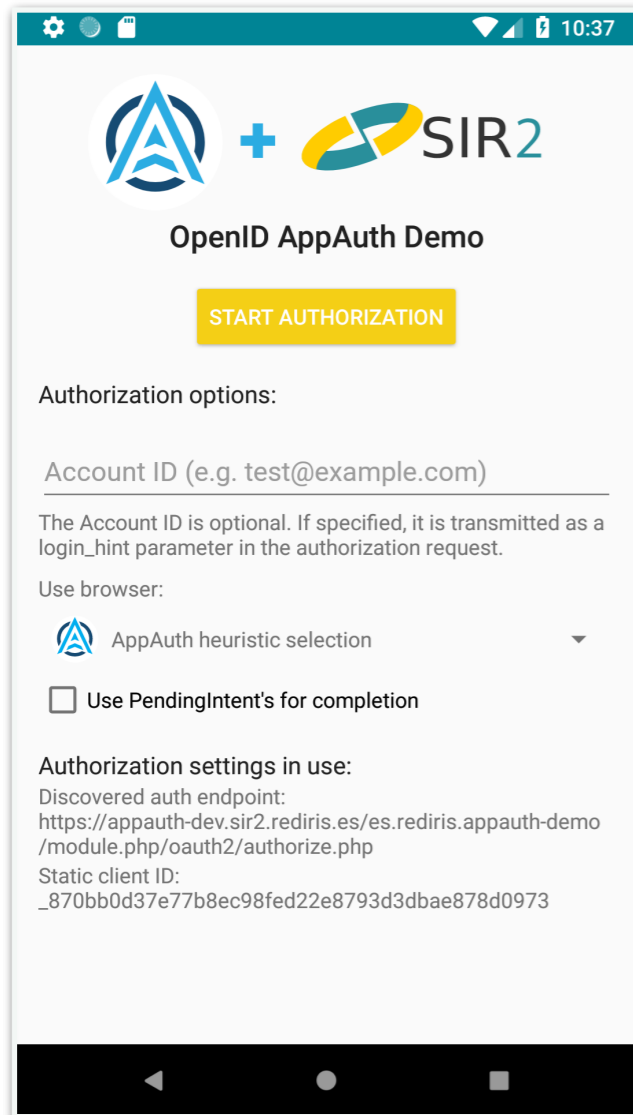


- The SAML world is connected as a 'remote IdP'
- We can use a central (SAML) discovery service, or directly contact a specific identity provider
- The gateway stores basic information, accessible only by the authenticated client

iOS interface



Android interface...



unpublished app available here: <https://redir.is/appauthand>

Thanks!



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