

/Customer Story

This client provides investment, savings, life assurance, asset management, banking and property and personal insurance solutions.

["Our continued relationship with this client is very important to I'Curity. We managed to stabilize and enhance the Oracle IAM platform and ensure successful integration with their strategic applications. We continue to work with this client to ensure that their IAM platform meets their current and future needs..."]

-Mooketsi Regoeng
IAM Platform Architect – I'curity



I'CURITY

ORACLE®

Gold Partner

/Challenge

This client engaged I'Curity Solutions as their Customer Identity and Access Management strategic partner. At the time when the relationship was established, the client had already deployed the Oracle IAM suite of products. I'Curity was tasked to:

- Develop and deployed new features on the platform
- Ensure that the platform aligned with Oracle EDG topology
- Ensure environment stability & reliability
- Integrate a plethora of customer facing websites
- Integrate a number mobile application being rolled out
- Fuse Web Access Management with OAuth 2.0
- Support and Manage the IAM platform
- Ensure that the platform met the client future needs

/Platform reliability and stability

I'Curity developed a reliability design as part of the Site Reliability Engineering exercise. The entailed:

- Site Reliability Metric
- Service Layer Ranking
- Used the Oracle Directory Virtualization services to aggregate data from disparate data resource to eliminate code latency caused by talking to different repositories to complete one transaction
 - Used Oracle Access Manager plugin framework to enhance speed during authentication and authorization
 - Reviewed, tested Load Balancer configuration
 - Enhanced Oracle IAM stack monitoring using Oracle Enterprise Manager beacons, dashboards and notification
 - Developed a monitoring plugin to test all IAM platform stack 1st party dependency across the client ecosystem
 - Developed incident response mechanism

/Fusion of Web Access Management (WAM) and OAuth 2.0

Protecting different types of applications (i.e., Single Page Apps, Multi-Page Apps) is a challenge for every enterprise. It becomes even more difficult when OAuth 2.0 has to be executed within the context of an authenticated global WAM SSO session. WAM architecture is driven by a proxy farm that has access management agents to ensure that a user has logged on. As part of that OAuth 2.0 calls have to be made in the context of that WAM SSO session. Essentially the requirement was to ensure a 3-legged OAuth grant flows in order to supply identity context to downstream resources (APIs) at

the policy enforcement point. I'Curity deployed:

- OAM plugins into the estate
- Enhance the OAuth 2.0 profile but developing OAuth 2.0 plugin using the Oracle framework
- Ensured that all tokens were shared and moved across the estate in the back-channel ONLY.
- Secured the channels with TLS 1.2

/New Features

The following features were designed, enabled and rollout in to the estate”

- RBAC controls on the API Gateway platform to ensure only “those” or “that” is allowed to call certain APIs in the estate had permission to do so
- Bearer token security and context
- Discretionary access for customers
- Mobile App integration with facial recognition

/The Platform

The client has selected the Oracle IAM suite of products to deliver identity capabilities to support their business strategy for its customer online services.

