



FORGEROCK

**OpenAM Consortium
Tokyo Japan
Feb 2014**

Allan Foster CTO Office

IRM

2013

Future



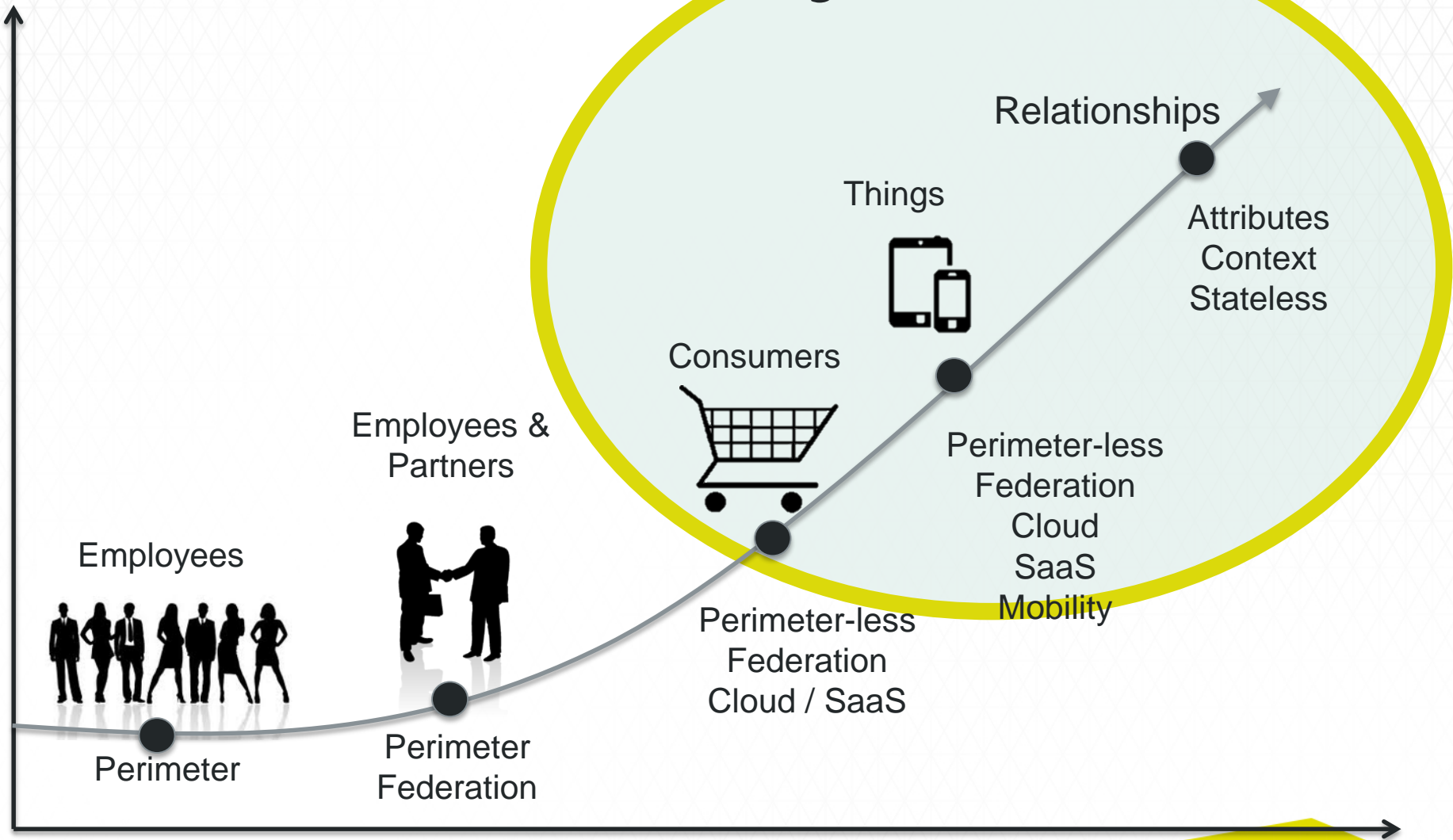
IRM Origin Story ...



FORGEROCK



Evolution of Identity



Identity Relationship Management Business Values ...

- CONSUMERS & THINGS over employees only
- ADAPTABLE over predictable
- TOP LINE REVENUE over operating expense
- VELOCITY over process and tools



CONSUMERS & THINGS

over employees only



ADAPTABLE
over predictable



TOP LINE REVENUE

over operating expense



VELOCITY

over process and tools

IRM Technical Emphasis ...

- **INTERNET SCALE** over enterprise scale
- **DYNAMIC INTELLIGENCE** over static intelligence
- **BORDERLESS** over perimeter
- **MODULAR** over monolithic



INTERNET SCALE

over enterprise scale



DYNAMIC INTELLIGENCE

over static intelligence



BORDERLESS

over perimeter



MODULAR

over monolithic

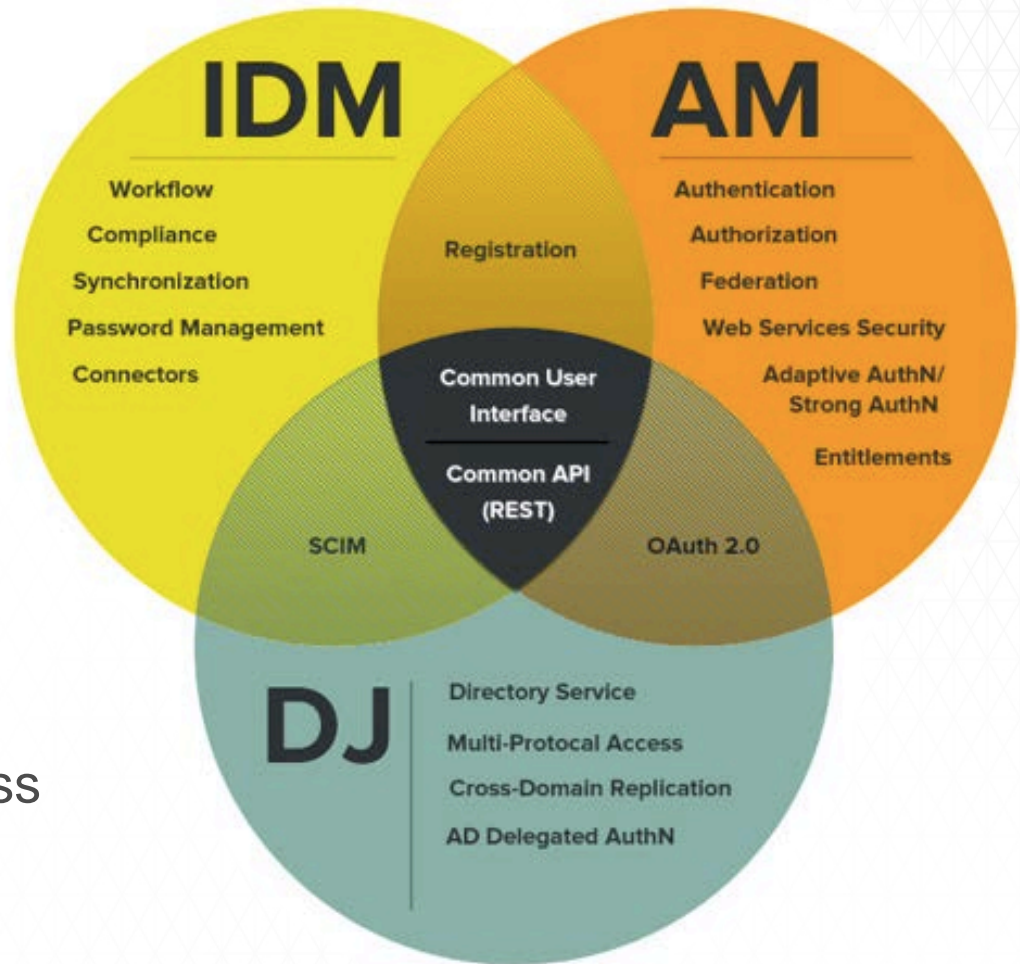
ForgeRock Technical Vision ...

Next Generation Identity & Access Management for the Modern Web



Our Open Identity Stack

- Platform agnostic for Enterprise, Social, Mobile, & Cloud Environments
- Modular & Embeddable for Cloud Providers
- Massively Scalable for External Enterprise Customers and private /public clouds
- One common API to access ALL services



Open Identity Stack

FORGEROCK
OpenAM

FORGEROCK
OpenDJ

FORGEROCK
OpenIDM

FORGEROCK
Bridge
SPE

Commercial Open Source Identity Services

Authentication	Federation	Entitlements	Provisioning	Synchronization	Directory Services
Authorization	Risk Engine	Web Services Security	Workflow	Password Management	Directory Proxy
Policy Engine	Session Failover	Strong AuthN	Password Reset	Role Provisioning	Replication

OpenAM

- “All-in-One” solution delivered as a single application
- Access to any application – Enterprise, SaaS, Social, Mobile
- Flexible and extensible architecture
- Social sign-on and one-time mobile password
- Architected for consumer scale -- +100M users



OpenAM

Key Features

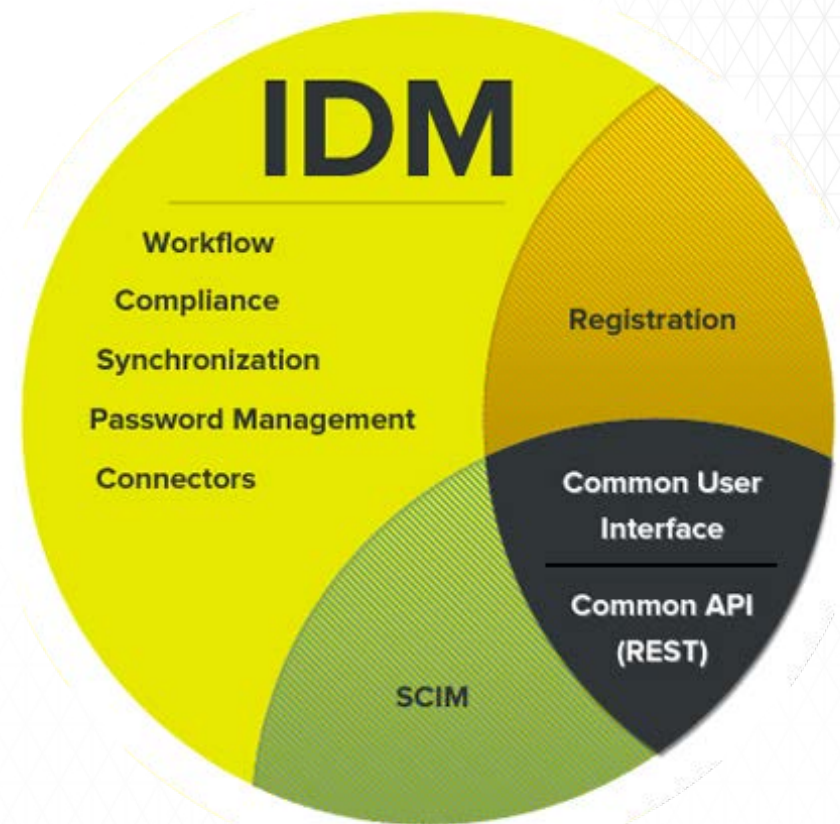
- Session Fail-Over architecture using embedded OpenDJ
- Full OAuth 2.0 and OpenID Connect 1.0 support
- Device Fingerprinting adaptive authentication support
- Complete Mobile development support through REST APIs
- OATH device and One Time Password support

Benefits

- Provides the highest level of HA to ensure users are always online
- Latest protocols for simplified Federation and Mobile SSO
- Adds advanced authentication module for fraud prevention
- Create device agnostic applications for a Web or a native O/S apps
- Use mobile phone as a second factor using either SMS or Soft-Token generator

OpenIDM

- Lightweight provisioning built on REST principles
- Flexible architecture with pluggable workflow engine
- Standards based APIs and scripting
- Architected for consumer scale with +100's of creates/second



OpenIDM

Key Features

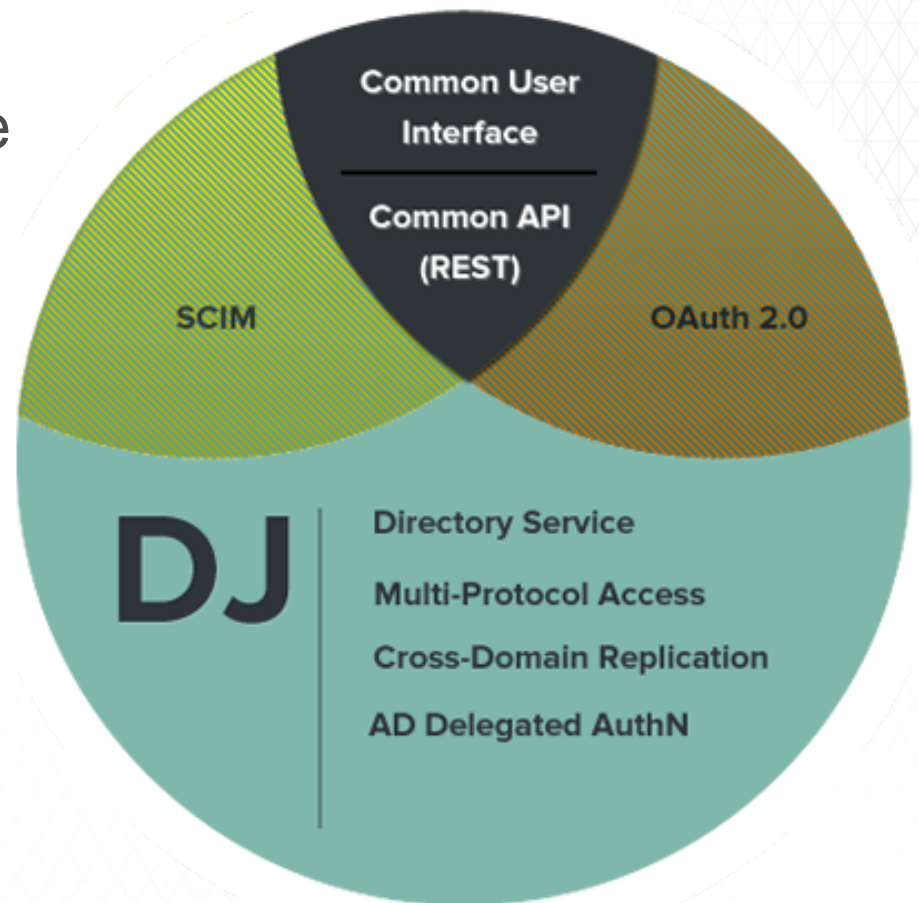
- Modern architectural design built on the OSGi framework
- Purpose built for high scale consumer applications and services
- Flexible data model and data store
- Program business logic using Java or Groovy
- Customizable UI using JSON and REST

Benefits

- Lightweight approach reduces deployment and development costs
- Provides easy to implement provisioning, syncing for online services such as banking, insurance...
- Reduces time and cost by leveraging existing model for managing data
- Standards based languages enable faster development and zero lock in
- Decoupled UI enables easy development of custom-tailored solutions

OpenDJ

- Lightweight / embeddable directory
- LDAP / REST APIs
- High availability & replication
- Architected for massive scale -- +100M Users



OpenDJ

Key Features

- Java based architecture designed for scale and performance
- Supports HA deployments with N-way multi-master replication
- Developer friendly LDAP to REST Gateway developer tool
- RESTful API developer access

Benefits

- Architecture supports the most demanding environments with high throughput
- Enables global data center deployment for managing failover and disaster recovery
- Exposes directory data as JSON resource enabling access for non-LDAP apps
- Simplifies by using standard REST for managing all core functions

ForgeRock Identity Bridge SPE

Secure connection between On-Premise & Cloud infrastructure



Ease adoption of cloud services and reduce enterprise / cloud friction

Business Impact

- Cloud Service Providers: Increase service adoption by eliminating IDs and passwords.
- Enterprise: Eliminate copious amounts of time onboarding new cloud services.

Technical Approach

- Turnkey software appliance for provisioning, federating and synching identities between enterprise customers and the services they offer
- Designed to be easily modified to match service provider's brand and application look and feel, and to seamlessly integrate with existing service offerings

Identity Bridge SPE

Key Features

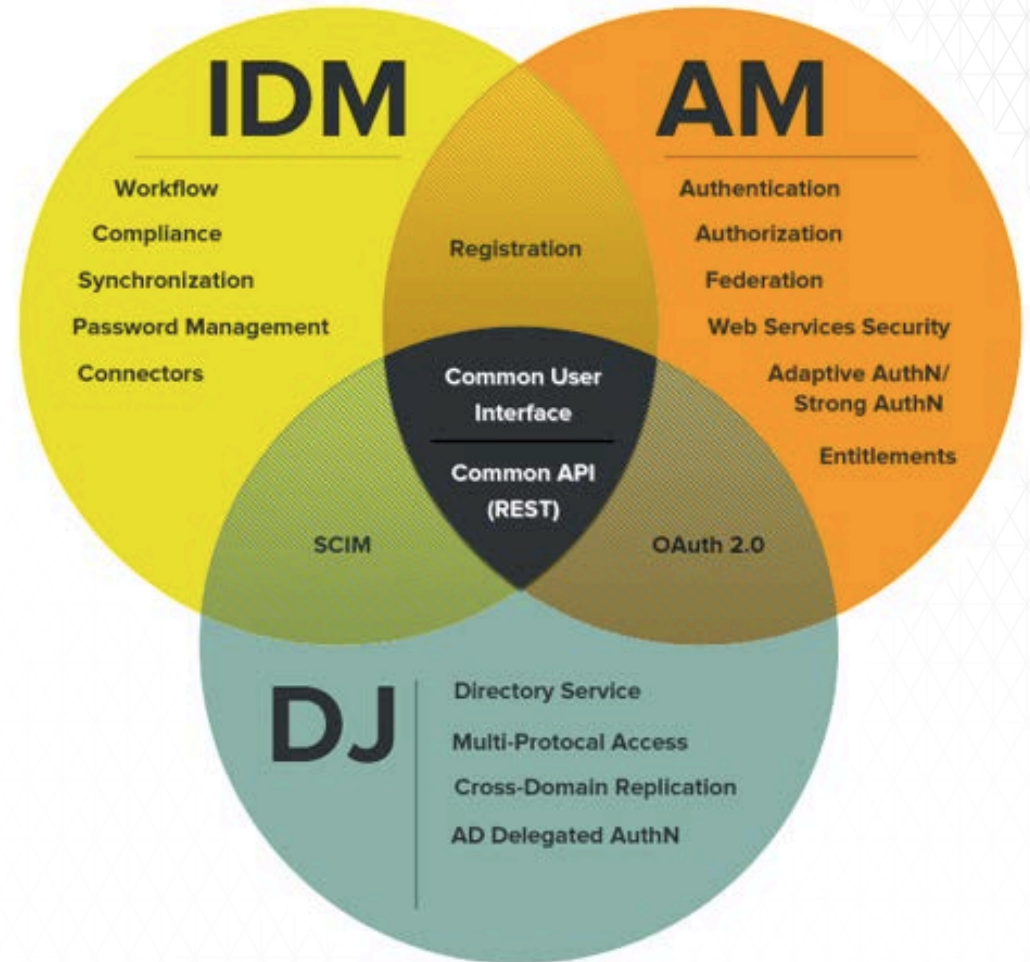
- Simple wizard based administration
- User provisioning engine with account reconciliation
- Federated SSO using SAML
- Designed as a software appliance
- Windows support for SSO to SaaS service
- Flexible configuration

Benefits

- Enables 15 minute setup and configuration
- Instantly add and remove users and sync in changes in real-time
- Single Sign-on using SAML-based for secure connections
- Deploys with any IAM Infrastructure in the DMZ
- Leverages standard Integrated Windows AuthN and Kerberos
- Can be customized for many different SaaS and data stores

Our IRM Platform ...

ForgeRock Open Identity Stack



ForgeRock Today

Building Relationships Across the Web

PEOPLE	SYSTEMS	CONTEXT	THINGS	DEVELOPMENT
Create users / things	Authentication	IP Risk-based Authentication	Enterprise Apps	Modular Services
Delete users / things	Coarse-grained Authorization	Device Fingerprinting	Mobile Apps	Common REST
Synchronization	Fine-grained Authorization	One-Time Mobile Password	Social Apps	Session Failover
Password Management	Federated SSO	Strong Authentication	IP-Connected Devices	Data Replication
Workflow	Web Services Security		Bridge for Cloud Providers	

ForgeRock Tomorrow

Building Relationships Across the Web

PEOPLE	SYSTEMS	CONTEXT	THINGS	DEVELOPMENT
Create users / things	Authentication	IP Risk-based Authentication	Enterprise Apps	Modular Services
Delete users / things	Coarse-grained Authorization	Device Fingerprinting	Mobile Apps	Common REST
Synchronization	Entitlements	One-Time Mobile Password	Social Apps	Performance
Password Management	Federated SSO	Strong Authentication	IP-Connected Devices	Multi-Tenant
Workflow	REST Token Service	Risk Analytics	Bridge for SFDC	Mobile Security Gateway
Role-based Provisioning	Risk-Based Authentication	Simplified Social Sign-On	Bridge for Enterprises	Monitoring

ForgeRock Roadmap

2015 STACK ROADMAP

OpenDJ: Virtual Directory

OpenAM: Knowledge-based Authentication

Risk Analytics (NEW)

Mobile Identity Management Phase 2 (NEW)

2015

2014 STACK ROADMAP

1H2014

OpenIDM: Role-based Provisioning

OpenDJ: Identity Proxy

OpenAM: Simplified Social Sign-on 2

2H2014

Bridge Enterprise Edition (NEW)

Mobile Identity Management Phase 1 (NEW)

2014

ForgeRock Momentum



- 800% sales growth from Q4FY12 to Q4FY13
- 207% sequential sales growth from Q3FY13 to Q4FY13
- Average deal size is up 166% Year over Year.
- Revenue continues to be distributed evenly between North America and European markets.

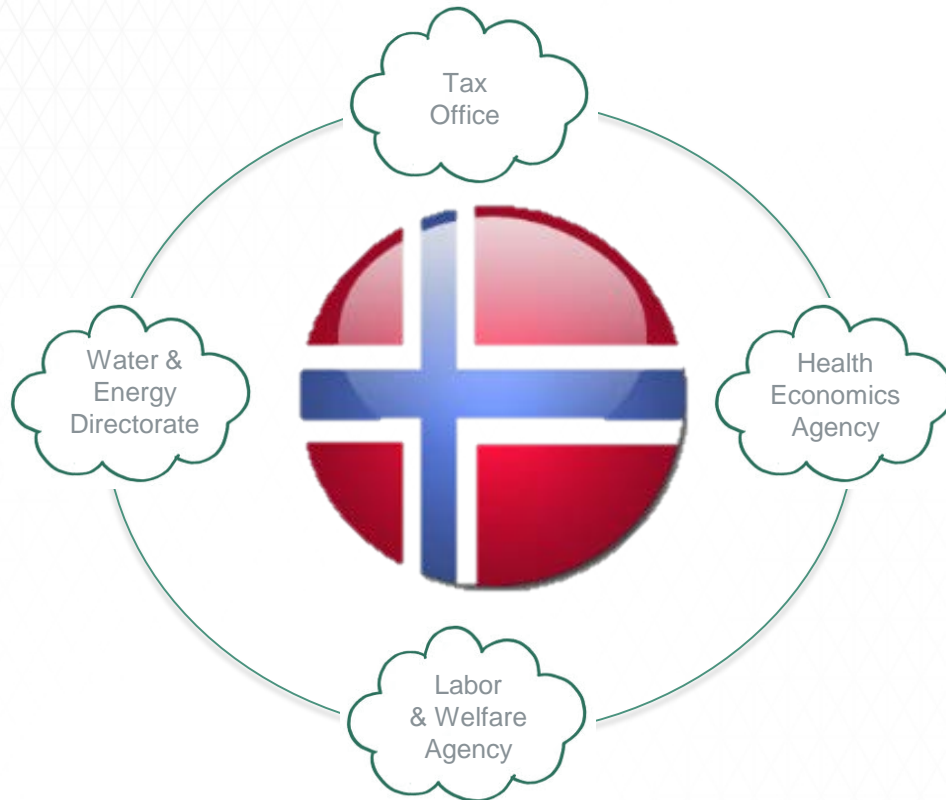
Business is Skyrocketing

Marquee Customers



Government of Norway

Providing 4M citizens access to 300+ Government services



“OpenAM’s simple, secure access to government services played a large part in the success of the eGovernment initiative”

TOR ALVIK, COO
Agency for Public
Management & eGovernment

5 million citizens access • Over 1 million concurrent users • 500k businesses access

Government Success ...



Canada
(35M Citizens)



Belgium
(11M Citizens)



Norway
(5M Citizens)



The Vatican
(~1000 Citizens)



New Zealand
(650K citizens)



New Caledonia
(256K Citizens)

Enabling Government Services Globally!

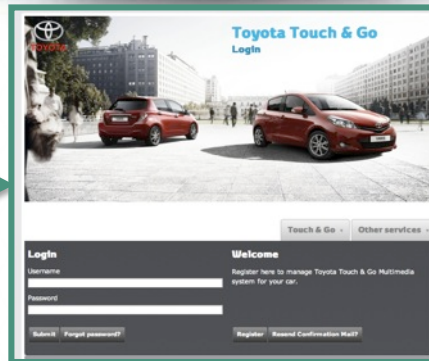
Toyota User Portal

Authenticating more than people—cars & devices included



1

Automobile
Authentication



Powered by ForgeRock

2

Application & Data
Synchronization



FORGEROCK

Thank You!