



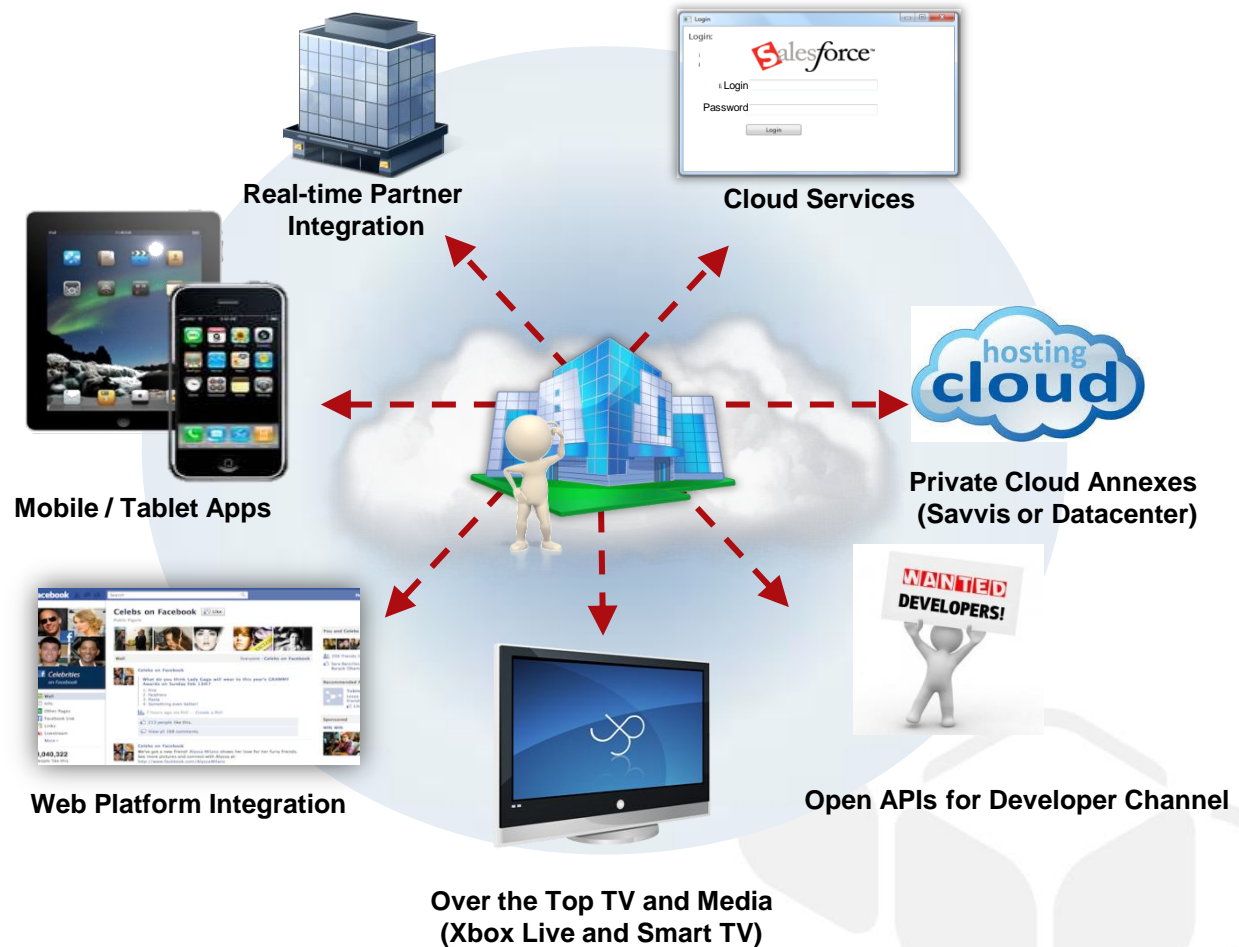
Building Blocks for the Hybrid Enterprise

Enterprises Are Opening Up via APIs. Originally Driven By Partner Access. Then Cloud. Now Mobile.

■ Connectivity & Security Challenges for Open Enterprise :

- Protection of applications exposed over internet
- Reuse of information shared across departments, partners, mobile & Cloud
- Ease of integration: reconciling disparate identity, data types, standards, services
- Federated & Delegated Security
- Performance optimization (caching, protocol compression, ...)
- Brokering cloud services
- Proxy connections to social, cloud, notification services that enterprises can control
- Cloud interactions
- Central governance of policies and security

We Call This new Open, Extended Enterprise the Hybrid Enterprise Because it Blends Inside and Outside as well as Private and Public



Layer 7 Gateway

SOA Governance for X-Domain & B2B

Problem Addressed:

Simplify real-time integration across divisions and partners via SOA technology



Secure & Govern X-Domain Integrations

- Translate data types
- Route messages across end-points
- Build & orchestrate APIs
- Secure data, APIs
- Enforce access policies
- Provide security & operations integration point

API Management for Developer Access

Problem Addressed:

Expose internal information assets to outside developer communities via APIs



Open APIs to Developer Communities

- Secure and manage APIs exposed to outside
- Onboard and manage developers
- Monetize and monitor APIs
- Foster different developer communities for internal, partner and public developers
- Make applications more consumable by mobile apps

Mobile Gateway for Mobile Security & Access

Problem Addressed:

Mobile middleware for helping enterprises make apps available to mobile devices securely



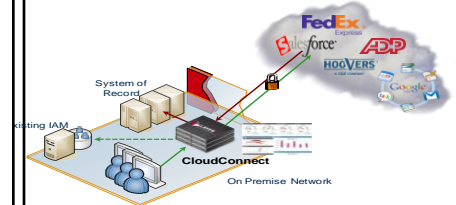
Manage Mobile Apps Security

- Manage user, app, device access
- Translate internal & external identity representations
- Build OAuth & OpenID Connect connections
- Provide data security & app firewalling (websockets etc)
- Proxy Social, Cloud for enterprise
- Certificate provisioning for X-app communication
- Monitor app usage & performance

Cloud SSO & Integration

Problem Addressed:

Simplify connectivity to cloud for SaaS & IaaS



Simplify SSO & Integration to Cloud

- SaaS integration
- SaaS SSO
- Hybrid Cloud Enablement
- Cloud Bursting
- Monitor usage of cloud services centrally

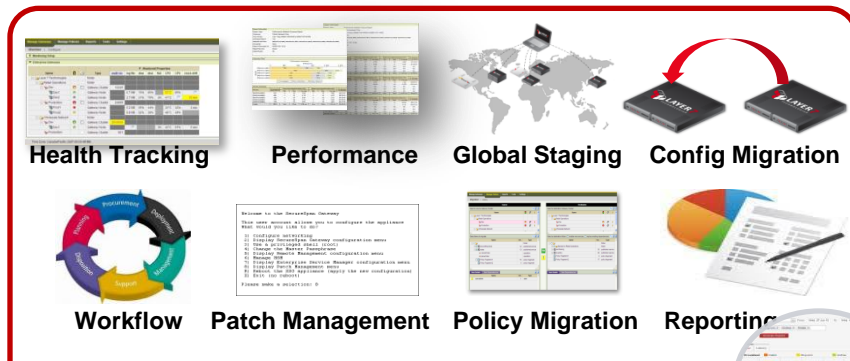
Layer 7 Products Address Key Areas of API Security, Management & Connectivity



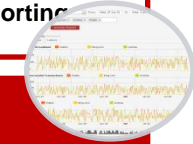
API Integration Gateway



API Identity & Access Broker



API Service Manager



API Developer Portal



Strong 150+ Customer Base Across 6 Continents

Financial Services



Communications



Public Sector



Other



Federal Sector Past Performance

10 Intelligence Community Customers (SIPR/JWICS)

- JRAE Joint Rapid Architecture & Engineering
- General Dynamics Classified
- Army National Ground Intelligence Center
- Office Director National Intelligence
- Various Intelligence Agency Programs
 - PKI, Data Sharing, Data Collection/Tagging

10 DoD Mission Customers (NIPR/SIPR/JWICS)

- Army ID Protect
- DISA NCES M2M, Discovery/Registry
- DISA IA 43 Lab / Empire Challenge 2009
- AF Space C2 Gap Filler
- Army CECOM SOA Foundation
- OSD Computer Network Defense
- AF Space JSpOC Joint Mission System
- AF GPS OCX (Next Gen)
- AF Schriever AFB DMOC-S Simulation
- AF Eglin AFB JMS Testing
- AF Air Operation Center - AOC WS
- Navy SPAWAR – Intel, Surveillance, & Reconnaissance

10 DoD “Back Office” Customers (NIPR)

- Army/AF Exchange
- Army Accessions Command
- iEHR Military Health DoD/VA

10 Cross Domain Customers (NIPR/SIPR)

- BAE Systems DSG/XTS-400
- AFRL CDIS
- General Dynamics Embedded Tactical XCV (Joint Light Tactical Vehicle, etc)
- AF Lackland AFB
- Radiant Mercury
- NSA DSCDS

10 Department of Homeland Security

- US Coast Guard
- US Visit
- CBP Agency Wide
- Transportation Safety Agency

10 Health and Human Services

- Centers for Medicare/Medicaid

10 Department of Transportation

- National Highway Travel Safety
- FAA SWIM System Wide Information Mgmt
- Surveillance Broadcast System
- FAA NextGen Weather

10 Dept. of Treasury

- Internal Revenue Service

10 Dept. of Energy

- Sandia Nat'l Lab

10 Dept. of State

- Consulate Affairs

10 Dept. of Commerce

- Patent Trademark Office

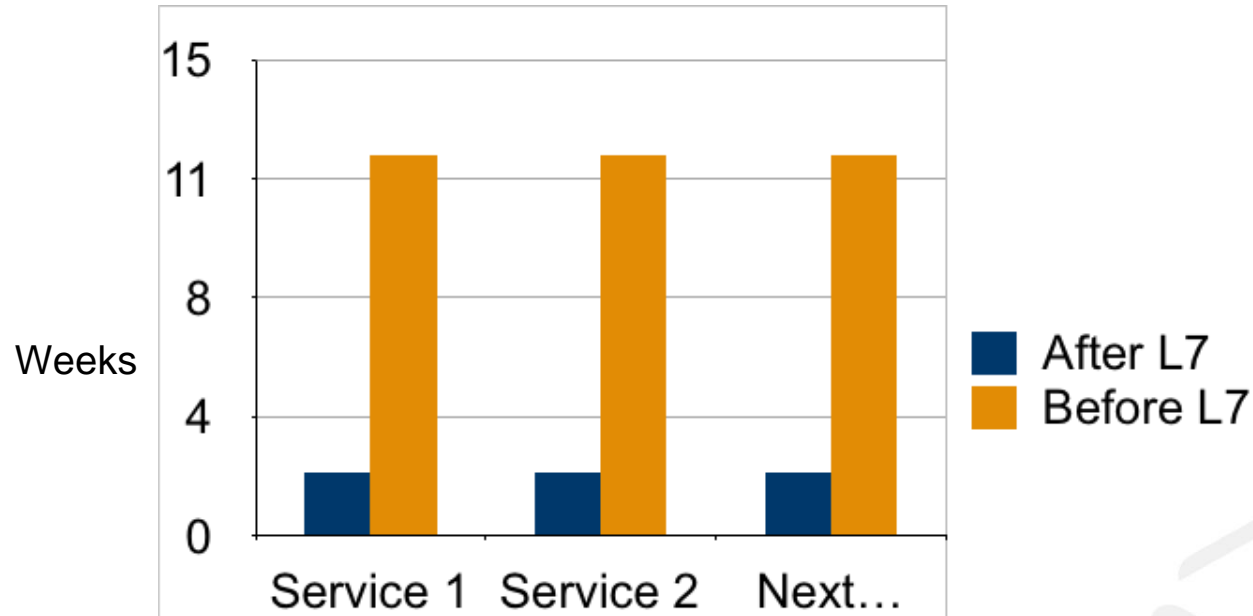
10 NATO (Coalition)

- Canada Dept of National Defense
- Danish Defense
- NATO UK MoD

Business Challenge: Flexibility & Cost Savings

Fastest way to Operational Deployment / IATO and ATO

With Layer 7 – 300 % improvement in time to provision services onto NIPR/SIPR/JWICS



- ⑩ Completed task, including IA review, in less than 2 weeks
- ⑩ No new code, only gateway configuration & policy review



Thank You