

An API is a business capability delivered over the Internet to internal or external consumers

- Network accessible function
- Available using standard web protocols
- With well-defined interfaces
- Designed for access by third-parties

A Managed API is:

- Actively advertised and subscribe-able
- Available with SLAs
- Secured, authenticated, authorized and protected
- Monitored and monetized with analytics

Create APIs

WSO2 Application Server, Data Services Server and ESB

Find and subscribe/buy APIs

- API Store and Governance
- Manage, secure and protect APIs
- API Management and Gateway
- Monitor and Monetize APIs
- API Monitoring and Analytics

WSO2 AP Manageme Platform

WSO2 Stratos and Cloud Development Platform API Cloud

Comparing Layer 7 and Apigee with WSO2 API Manager

	Layer 7	SOA Software	Mashery	Apigee	WSO2	Comments on WSO2 Offering
API Proxy						
Throttling and Rate Limiting	Y	Y	Y	Y	Y	Service Level Agreement tiers are enforced
Full On-premise offering using consistent technology	Y	Y	N (requires Cloud services and separate technology stack)	Y (extra cost)	Y	
Transport mediation	Y	Y	No	HTTP to JMS only	Υ	The full list of WSO2 ESB transport protocols can be supported by editing the API configuration. A partial list of transport protocols includes JMS, WebSphere MQ, FTP, SMTP, MSMQ, SAP/R3 IDocs, FIX, XMPP
Enterprise-strength security and access control	Y	Y	No	Limited	Υ	
Security Firewalling	Y	Y	No	Limited	Limited	
Authentication, Authorization, and Audit	Y	Y	Y	Y	Y	
XACML	Y	No	No	No	Υ	

	Layer 7	SOA Software	Mashery	Apigee	WSO2	Comments on WSO2 Offering
API Lifecycle Management						
API Publishing	Y	Y	Y	Y	Y	
API Versioning	Y	Y	No	Y	Y	Several versions can be deployed in parallel
API Governance workflow	No	Y	No	No	Y	Basic lifecycle management (i.e. created, published, deprecated, retired) included in the initial WSO2 Manager offering. The offering integrates with the WSO2 Governance registry lifecycle, which offers advanced workflow and approval managemen
Publish documentation	Y	Y	Y	Y	Y	Associate documentation (i.e. files, inline text, external URLs) with APIs
API Metrics	Y	Y	Y	Y	Υ	
Real time dashboard	Y	Y	Y	Y	Y	
Remote management APIs	Y	Y	No	No	Y	Web based management consoles

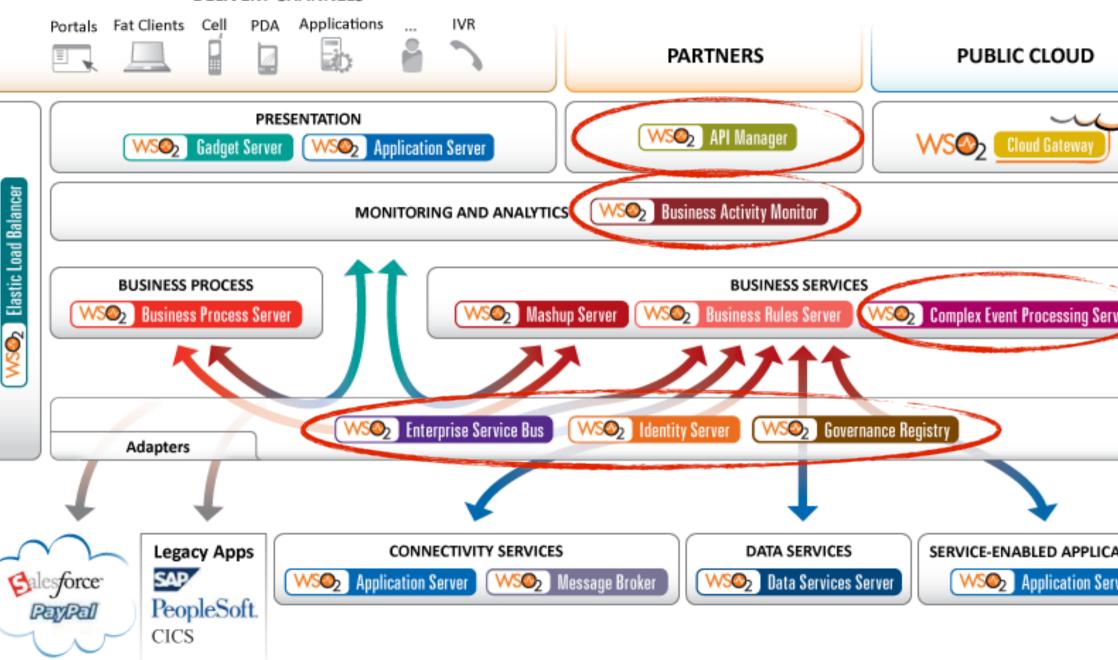
	Layer 7	SOA Software	Mashery	Apigee	WSO2	Comments on WSO2 Offering
Developer Portal						
API Reporting	Y	Y	Y	Y	Y	
API Usage	Y	Y	Y	Y	Y	
API Key management and listribution	Y	Υ	Y	Y	Y	
Content Management System	Y	Y	Y	Y	No*	Interfaces with your content management system. The WSO2 API manager publishes API documentation containing inline text and URL pointers to online resources.
Architecture						
/ulti-tenant components	N	N	N	N	Y	Multi-tenant components enable organizations to flexibly deploy multiple API Stores and re-use multi-tenant gateways
Open and Composable Architecture	N	N	N	N	Y	
000/ Open Source	N.	NI.	NI.	NI.	v	

Layer 7 and WSO2 lead the pack. Layer 7 showed sophistication in its SOA-derived solution while offering solid solutions for new API management challenges. WSO2 has created an approachable product on a flexible architecture that nontechnical business owners will find attractive.

intel, Mashery, IBM, Vordel, and 3scale offer competitive options. These vendors represent a vide set of business, deployment model, maturity, and self-service choices; there's something to ike about each, depending on your needs.

Figure 5 Forrester Wave™: API Management Platforms, Q1 '13 **Market Presence** Risky Bets Strong Performers Leaders Contenders Strong Layer 7 Mashery Vordel O WSO2 ⊙3scale urrent Intel (ffering IBM Weak Strategy _ Weak -Strong

DELIVERY CHANNELS



API Manager

Portals

Repository

Key Server

Gateway

Embedded Transformation

Business Activity Monitor

Cassandra Store

Analytics Framework

Dashboards

Reporting

ESB

•

•

•

Transformation

Mediation

Adapters

etc

IDENTITY SERVER

Federated SAML2 OpenId

> Policy based authorization (XACML)

> > Directory etc

CEP

High Performance Stream Processing

Complex Event Processing

GOVERNANCE REGISTRY

Service Lifecycle

Dependency Management

Extensible Metamodel

Notification

om SOA lessons learned, best practices roles

Creator

- Builds, manages, and versions API
- Understand business and technical requirements
- Cares about usage and scaling
- Seeks feedback, ratings, usage

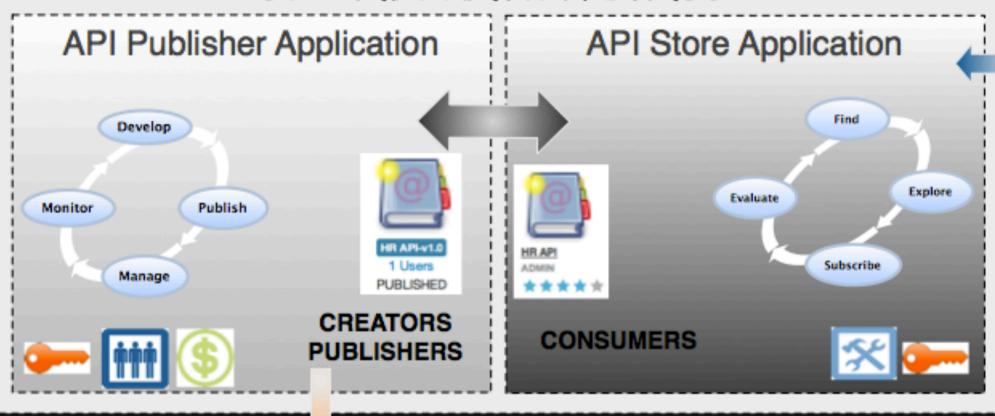
Publisher

- Publishes, Promotes and encourages consumers to adopt APIs
- Determines usage patterns and how to best monetize asset
- Monitors and secures

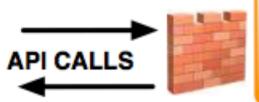
Consumer

- Understands the interface definition
- Subscribes and connects application to API
- Monitors own usage and cost basis
- Provides feedback and ratings

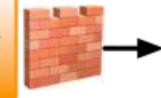
COLLABORATION SPACE



RUNTIME



API Gateway
(Security/Throttling/
SLAs)



Existing Services

WSO2 ESB

 used as API Gateway by eBay, AAA, and others. eBay handles mo than 1 billion API calls/day

WSO2 Governance Registry

used by British Airways, Intermountain Healthcare, and many others

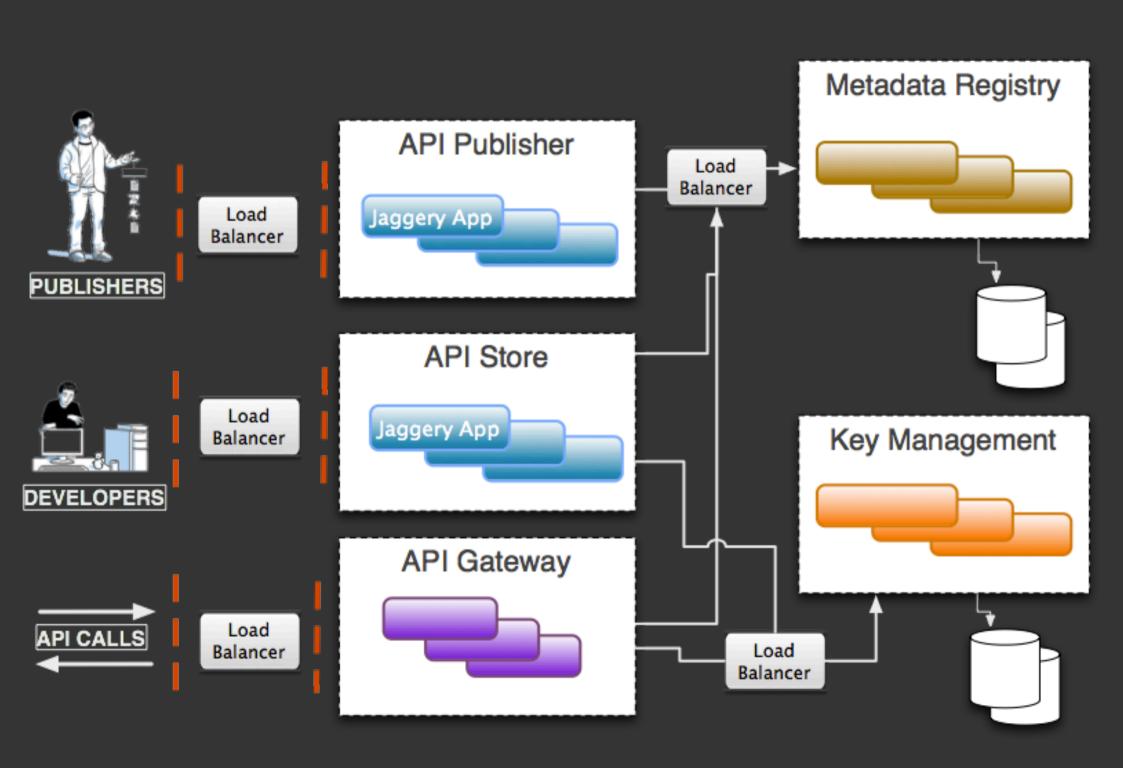
WSO2 Identity Server

 used by Citigroup, Federal Home Loan Bank of SF, US Navy and others

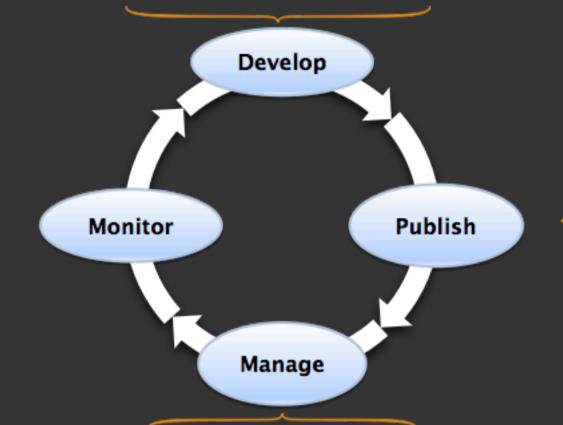
WSO2 Business Activity Monitor

used by Mercedes Benz, Kaiser Permanente, NZ Ministry of Health

The API Management platform implements governance be oractices developed with our customers.



- ✓ Develop API / API changes
- ✓ Deploy to ESB /App Server

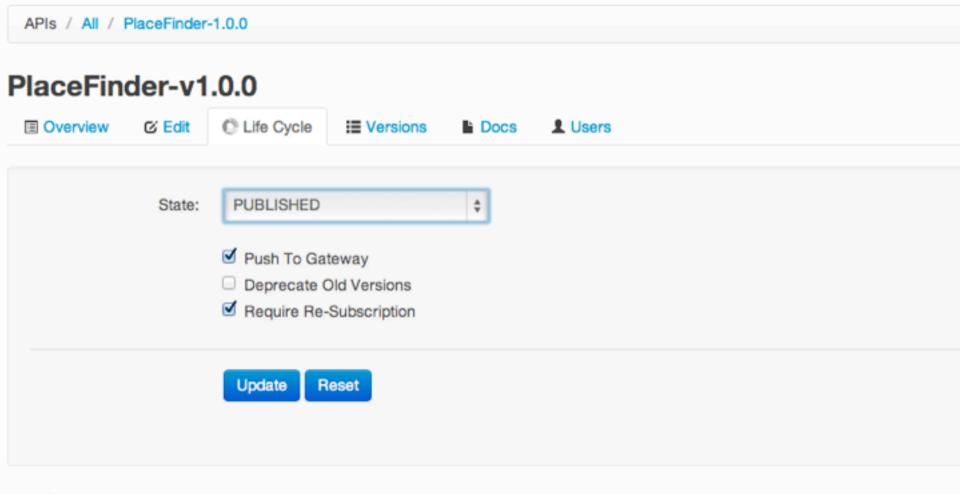


- √ Register API
- √ Associate SLA
- ✓ Associate Security Requirements
- ✓ Associate Rate Limits / Throttling

- ✓ API Lifecycle
- ✓ API versions
- ✓ API policies
- ✓ API keys

- ✓ Monitor API behavior
- ✓ Monitor API consumers
- ✓ Gather
 Consumer
 requirements





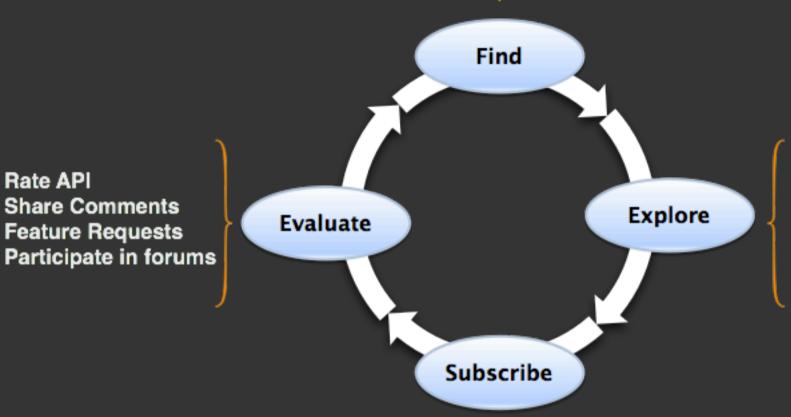
Life-Cycle History

- ✓ View Top Used, New, Featured APIs
- Search by name, tag or provider
- **Save Searches**

Rate API

Share Comments

Feature Requests



- ✓ View ratings, comments
- **Download Help and Docs**
- Try it Online
- ✓ Ask Questions to owner

- **Register Applications**
- **Obtain Key**
- Subscribe to API
- ✓ Subscribe to API changes

Search APIs

Sign-up

cently Added

DetectorDeNumero...

apicultur

Molinodeldeas

DetectorDePlural-1....

Molinodeldeas

DetectorDeSingular...

Molinodeldeas

Feminizador-1.0.0

Molinodeldeas

PatronPalabras-1.0.0

Molinodeldeas

APIs groups



Phonetics

All the phonetic word information you need: transcription, sillables, minimal pairs, stressed vowels...



Lemmatisation

Services to help you find lemmas and grammatical categories of different words and passages of text.



Frequency

Classification of words by levels of frequency.



Complexity Levels

Classification of words by levels of learning complexity (according to Cervantes Institute levels A/B/C/D)



Texts by Numbers

Find words that are more commonly used, less commonly used, longest, most repeated... all from a given piece of text



Synonyms

Compile lists of synonyms by word and by lemma



Basic Spanish Dictionary

Spanish in 1000 words



Spanish Expressions

Information on the most common Spanish expressions: definition, alternative versions, level of difficulty, examples of use,



Word Games

Anagram-Maker, Word Chains, Crossword and Scrabble solutions and other word games

Tag Cloud

Audio Basic Spanish dictionary

Buscadores de palabras

Complexity levels

Diccionario básico de español

El texto en cifras Fonetic

Frecuencia Frequency

Gender and Number

Genero y Numero

Juegos de Palabras Lematizad

Lemmatisation

Niveles de dificultad

Palabras del texto Phonetics

Procesamiento de texto Refranes

Silabas y Tildes Spanish express

Syllables and Accents

Text by numbers Text processing

Texts by numbers

Texts by words Verbos Verbs

Word Games Word searches

colocacion diccionario

molino

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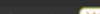




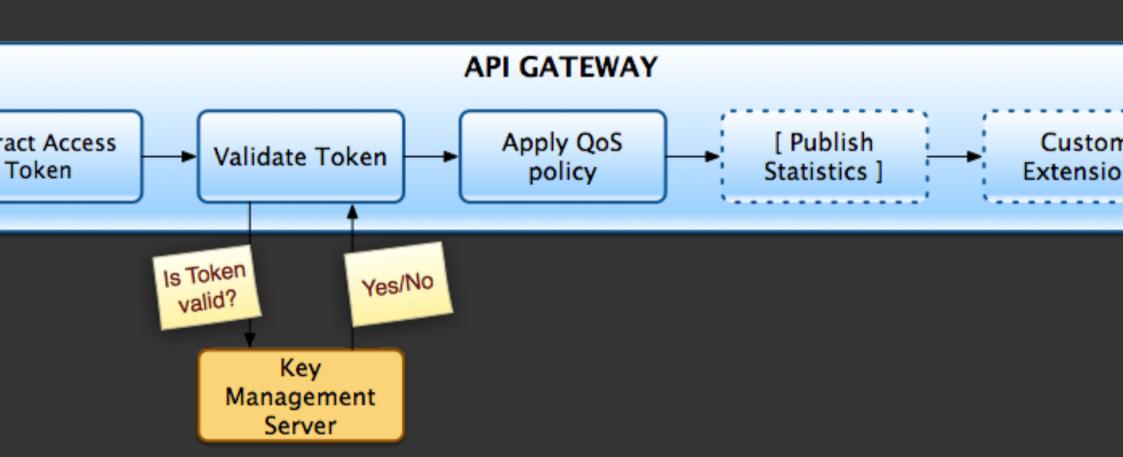










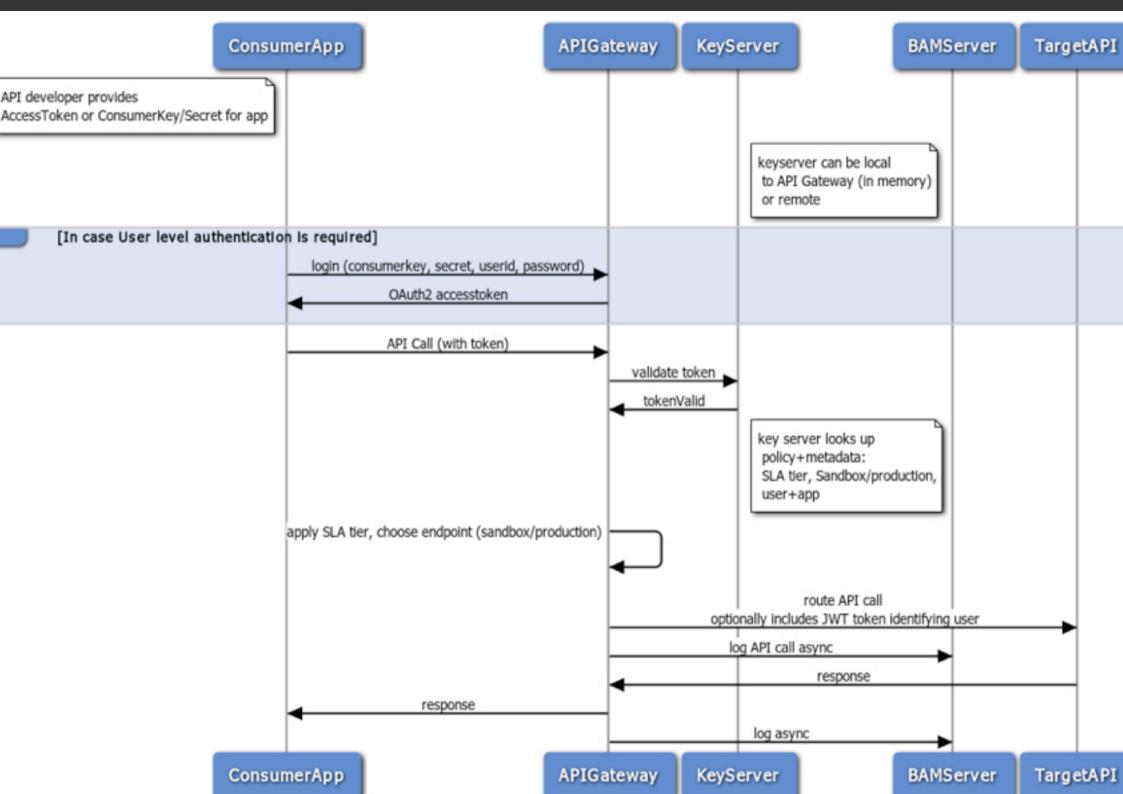


OAuth2 standard compliant

Pre-generated Access Token: can be used from a application, to identify the application itself

On-demand Access Token: generated via login cal from Consumer Key and Consumer Secret - Identifies the end user of an application (web application, mobicapplications)

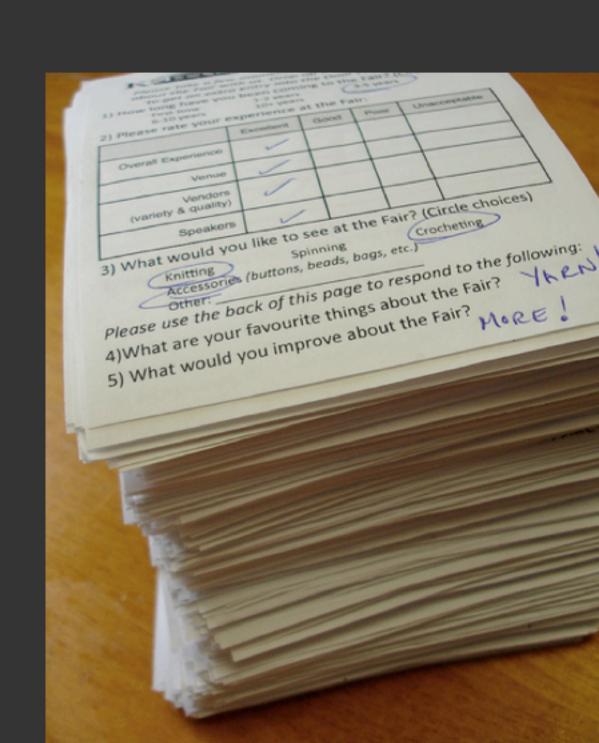
Keys	
Production	Re-generate • Hide Keys
Access Token	RRu_q6Kps5N1NG20ZCsHAy5tC9ca
Consumer Key	JVIVyClRSgHs9AZWe0ufDO4BVv0a
Consumer Secret	3Zee66imMJPQuBky7wDrdisWYLka



Monitoring and Analytics

How to collect data efficiently

- How to store data effectively
- Choose which data to capture



Data operations
Defining KPIs and
analytics
Operating on large

amounts of historical or current data

Creating intelligence



Visualization Dashboards Reports

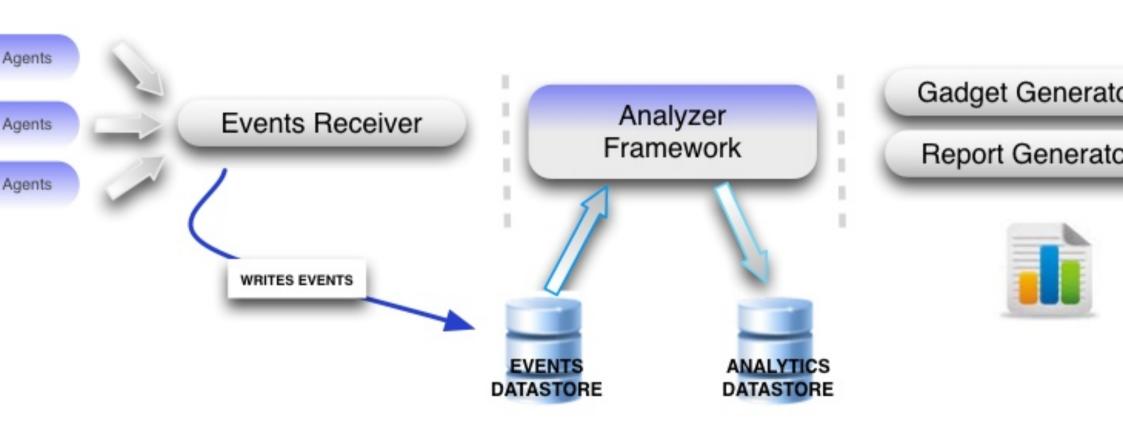


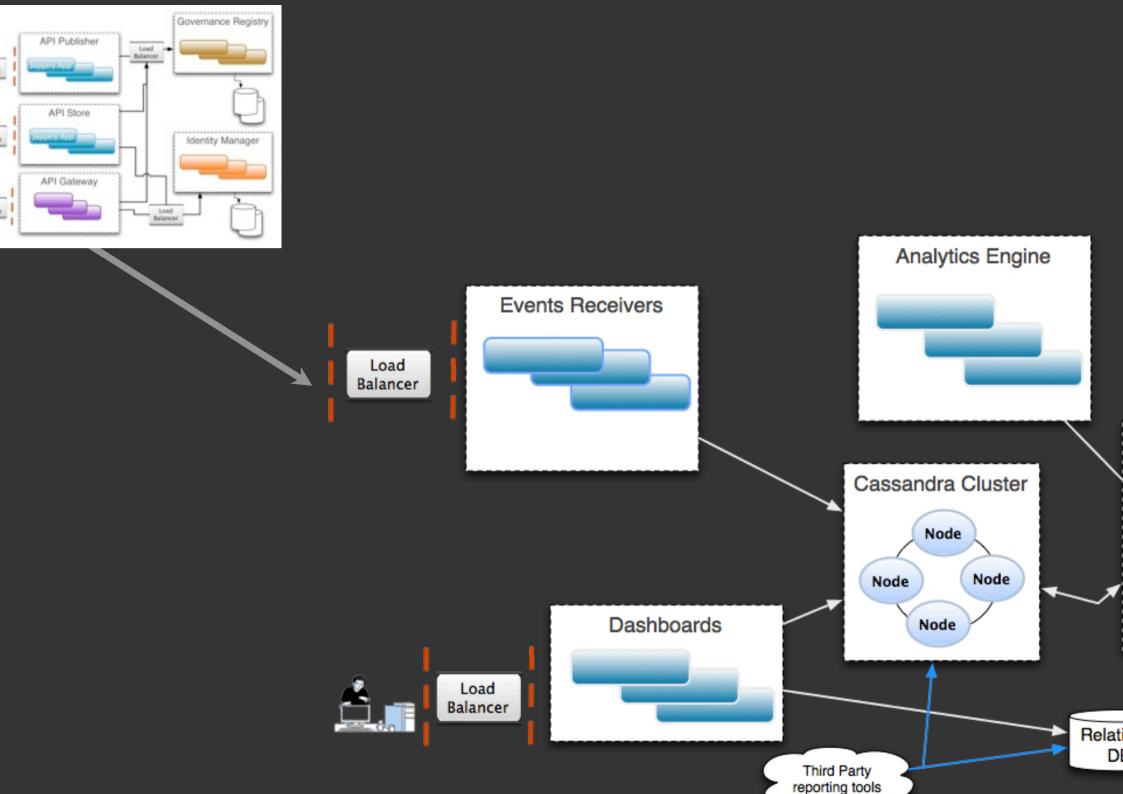
Build confidence in the API model Understand your customer

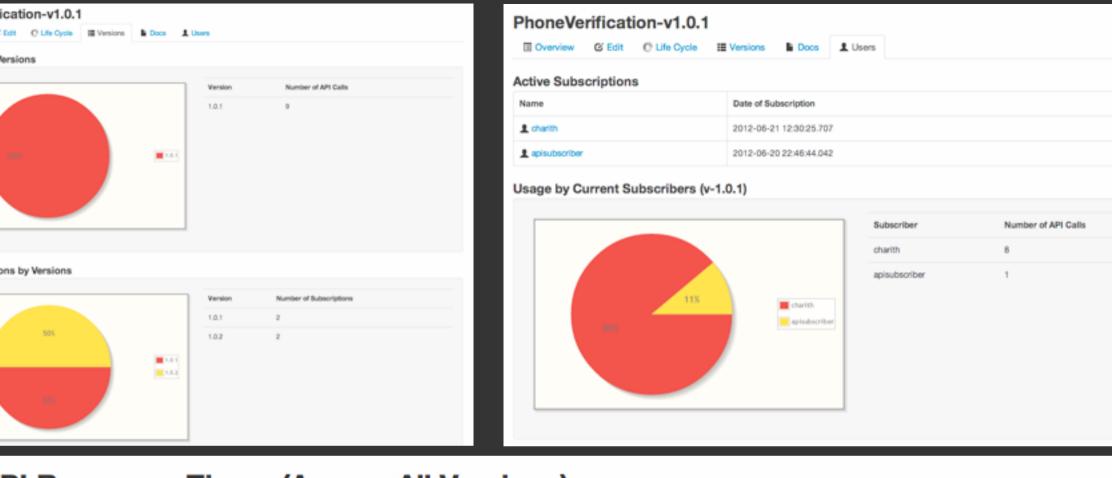
- Not just the developer but also the end-user
- Help manage services and versions
- Understand when deprecated services can be retired

Plan better

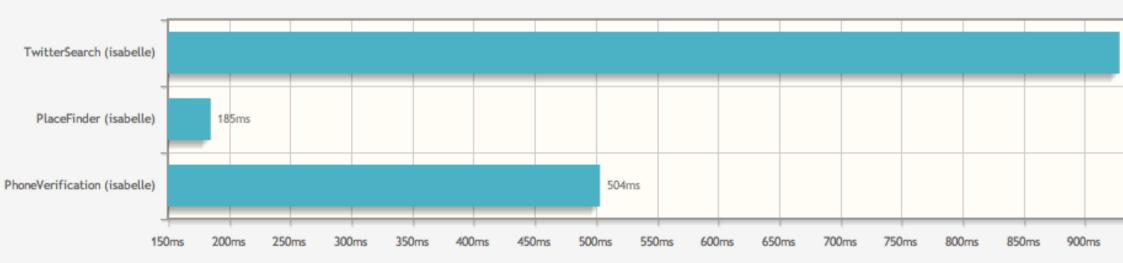
- Monitor the growth of aggregated API traffic
- Monitor the growth of specific apps







PI Response Times (Across All Versions)



Already delivered 1.0, 1.1.1, 1.2, 1.3

L.5 (Early Q2)

- Improved billing integration
- Improved flow/mediation configuration
- Swagger description for REST APIs
- Multi-tenancy
- Notification support

L.6 Mid-2013

- Async issuing of API keys
- OSQA support / Wordpress integration
- Table view of APIs and subscription
- Improved reporting and statistics

2.0 Sept/October 2013

- Much wider API ecosystem integration:
 - Github, StackExchange, ProgrammableWeb, Facebook, Google+
- SPDY and WebSockets support
- Built-in JMS integration (vs existing plugin)



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