



Australian Government  
IP Australia



Patents



Trade Marks



Designs



Plant Breeder's  
Rights

# A Web Service Journey

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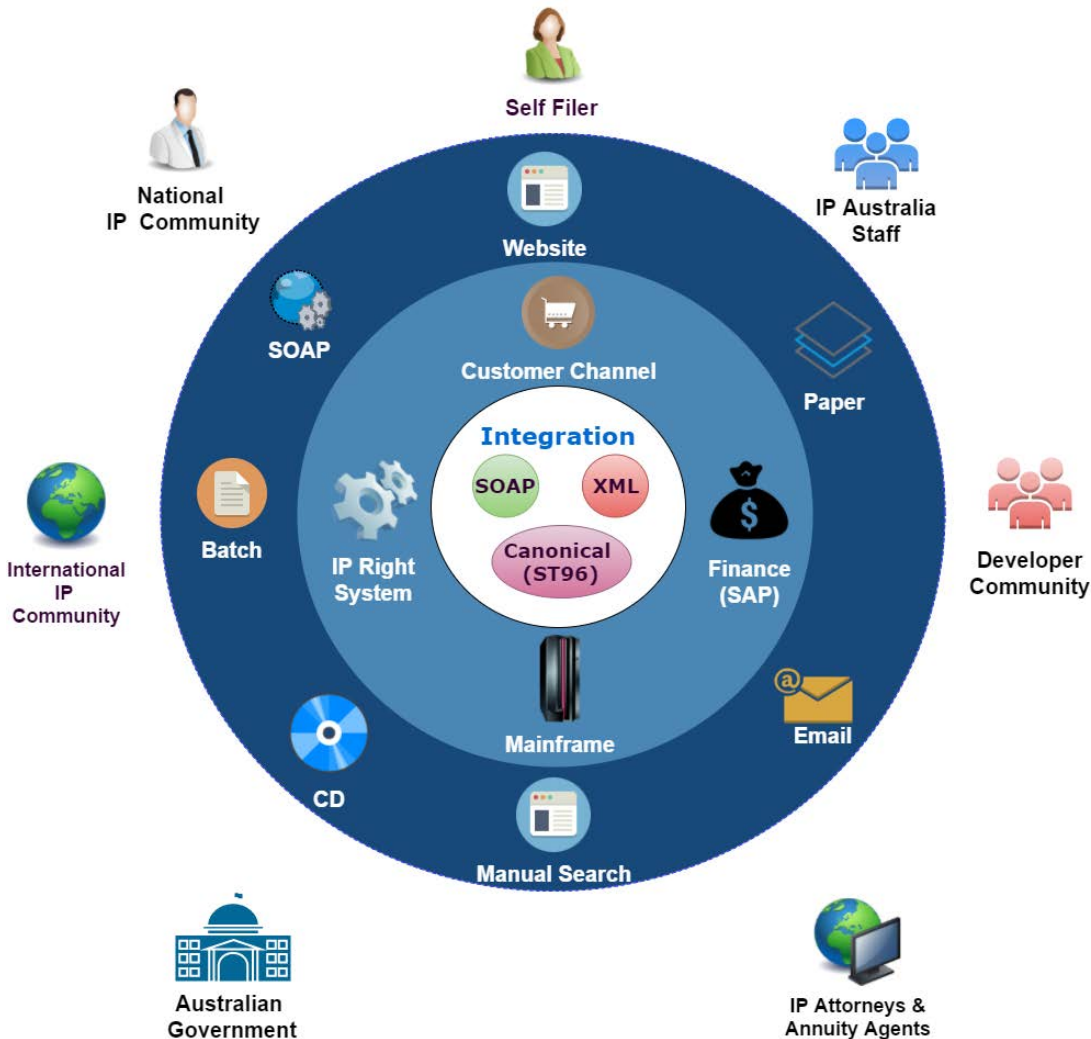


# New ICT Strategy 2017-2020



- Digital by default
- API and Microservice based Integration Services
- Scalable digital channels for customer self service
- Continuous Delivery (DevOps)
- Cloud hosted infrastructure
- High Availability architecture

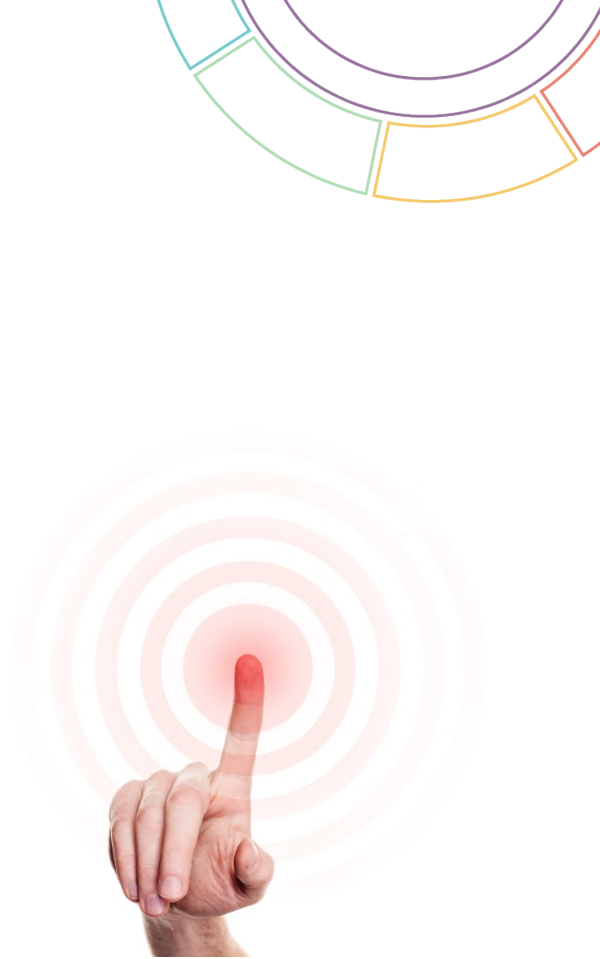
# Current State



- Madrid Fee Reconciliation is still via Email
- Bulk Patents Data received via CD ROM
- B2B Service Requests received as Batch
- Madrid & PCT data exchange is not real time
- Lack of self service

# Pain Points

- Customers have limited self service capability
- B2B Customer integration is not efficient and tightly coupled to a proprietary solution
- Infrastructure is not highly available
- Difficult to keep up with increasing business capability requirements



# Key Goals

**National IP Community** - Increased education access and awareness



**IP Agents** - Simplification of process and greater connectivity

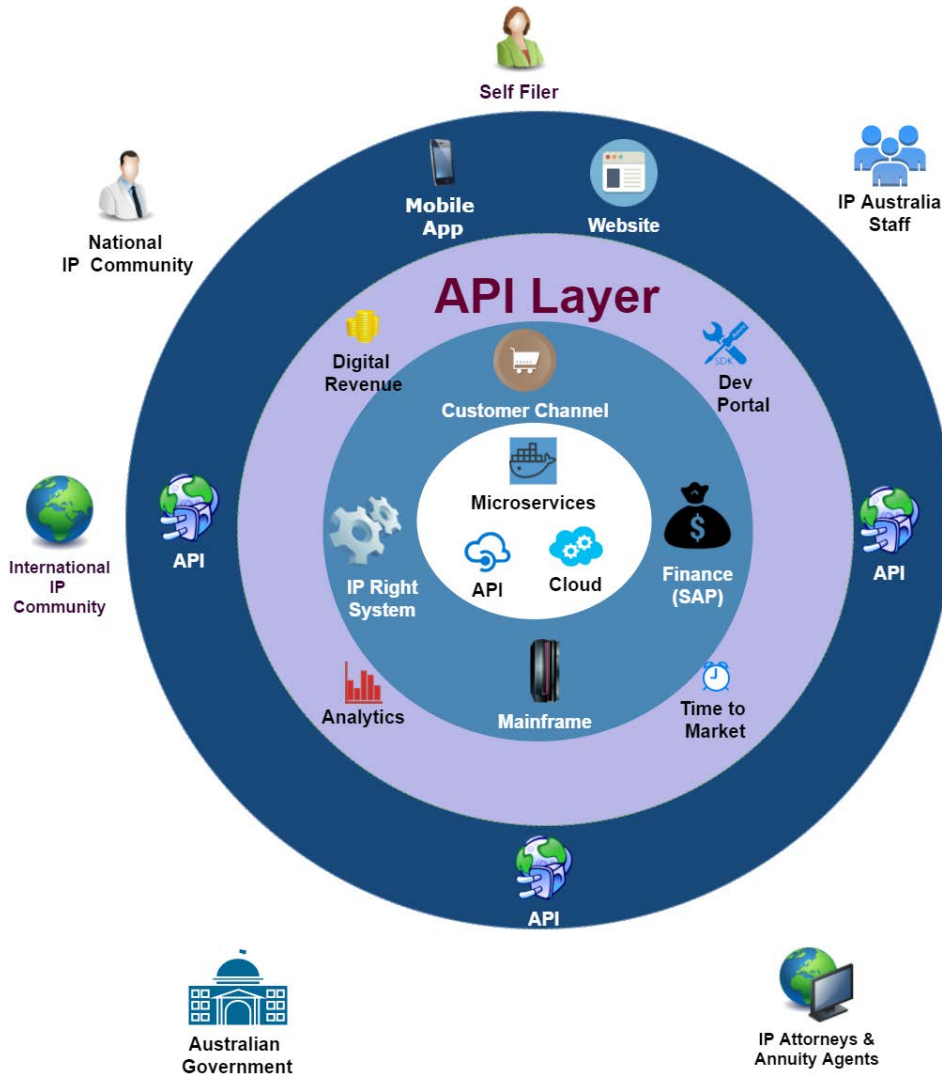
**International IP Community** - Collaboration through system harmonisation



**Self-Fileers** – Simplified, guided processes and systems



# Target State



- API led connectivity
- Microservices for application architecture
- Cloud hosted infrastructure
- Mobile Applications
- APIs for 3<sup>rd</sup> party Developer Community
- Interconnectivity with other Govt services – single business registration
- Machine Learning

# IP Australia's Forward Plans

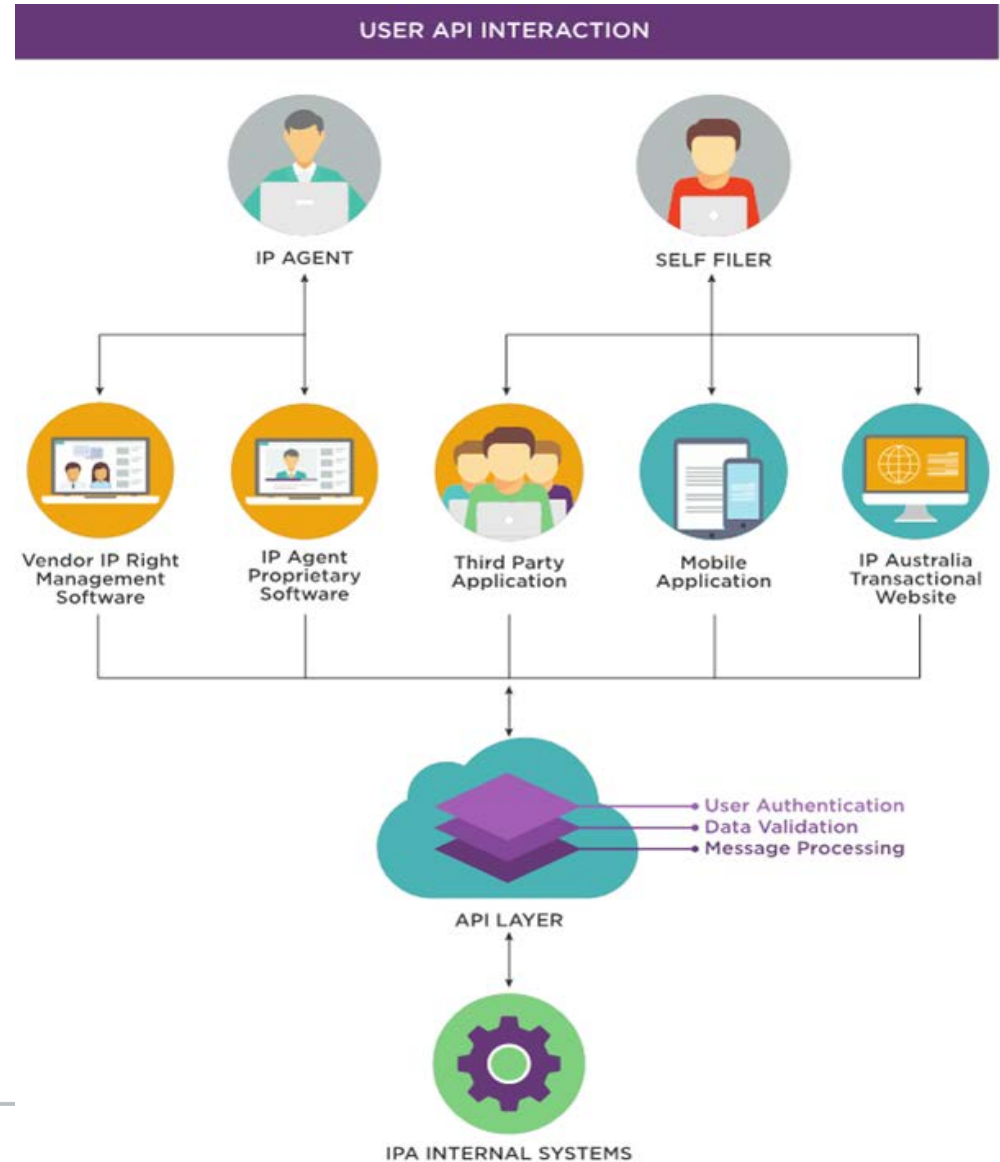


From	To	Standards
Traditional Web Application for Online Services	IP Rights management API Mobile Application Transactional Website using Microservices	<b>REST/JSON</b> <b>WCAG 2.0</b>
SOAP Webservices for Integration	Expose 60+ Webservices as APIs – SOAP and REST	<b>JSON/XML (ST 96)</b> <b>WS-Security</b> <b>JWT/OAuth</b>
Data Reporting – CSV/Excel	Business Intelligence and Analytics	<b>Serverless Architecture</b>
Bespoke image conversion	Utilise OCR and Image Processing as SaaS	<b>WIPO ST-* Image Standards</b>
Manual Classification of Patents	Auto Classification in Microsoft Azure	<b>Machine Learning</b>



# Customer Portal Solution – our vision

- API to enable Customers to manage their IP Rights
- SaaS cloud hosted solution to support greater availability
- Reduce the barrier to entry for digital service integration, through a modern API channel







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# Appendix

## What is an API?

- ✓ Traditional APIs are technical interfaces for software programs, where one software program would call another.
- ✓ An API in today's terms is an easy to understand interface that exposes a recognizable business asset, data or services, for consumption by developers inside and outside the organization.
- ✓ APIs can be thought of as a plug and socket. The socket is created by IP Australia and application developers create matching plugs to allow their programs and applications to connect.



# Appendix

## Why API?

- ✓ API enables internal and external customers to automate their interactions with IPA systems
- ✓ An API is a method of exposing business capabilities for the purpose of interconnecting
- ✓ Using APIs (as a business service) simplifies connections between ICT systems so that they are not dependent on the underlying technology or where they are hosted