API MANAGEMENT – STRATEGY & ROADMAP 2023+

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AGENDA

- Strategy
- Current Situation
- What is new - what has changed?
- What is next..
- Q&A
STRATEGY

APIs are the *backbone* for the EPO’s Digital Transformation journey

At its core, we promote an **API**\(^1\)-st *integration strategy*, aimed to

- Deliver patent data that matters: relevant and up-to-date information that consumers *need*
- Enable automation across both dimensions of patent processes *and* patent services
  - Patent Information services
    - Prior Art & more..
  - Transactional Patent Business services
    - Patent Portfolio Management
    - Core Patent Business Exchange & Integration services
CURRENT SITUATION

EPO’s API Management is entering its 10th year – beginning in 2013

- APIs are 100% fully-fledged **Products**
- Major uptake in API consumers
- Extremely active Developer Portal
  - [https://developers.epo.org](https://developers.epo.org)
  - API Sandbox: #1 enabler
- Preparing the introduction of new APIs (new Domains of Patent services)
  - (see presentation later….)

![Developer engagement chart]

![API service family list]

![API service family list with service details]
CURRENT API USAGE

<table>
<thead>
<tr>
<th>Month</th>
<th>API Calls (per Million)</th>
</tr>
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<tbody>
<tr>
<td>FEB-22</td>
<td>375</td>
</tr>
<tr>
<td>MAR</td>
<td>399</td>
</tr>
<tr>
<td>APR</td>
<td>414</td>
</tr>
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<td>MAY</td>
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<td>DEC</td>
<td>629</td>
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<td>635</td>
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<tr>
<td>FEB</td>
<td>790</td>
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</table>
WHAT IS NEW – WHAT HAS CHANGED?

(Multi)Cloud Strategy

- APIs are not hosted just within 1 location
- EPO Data Centre(s)
  - Private Cloud
  - Public Cloud
  - Sovereign Cloud
- 3rd Party (strategic) SaaS

Zero Trust Architecture

- No explicit trust - authn/authz everything
- Ensure usage of industry-trusted (web) security standards
  - e.g. OAuth/OIDC
- CIAM
- Policies everywhere!
  - Policy as Code
- Ensure Security is manageable!
WHAT IS NEXT?

Alignment of internal and external API Mgt

- Can both be aligned?
- Increased support for API Consumers
  - Goal: API Experience must be incredibly simple and secure!
- Bring Observability to the edge!
  - Real-time analytics & reporting
- Ensure QoS for API Products
  - Availability, reliability, perf. & stability

Update of API Management platform

- Ensure business continuity
- Leverage (cloud) technology advances in
  - Infrastructure services
  - Security
    - AI/ML to detect/mitigate abuse!
- Developer Portal
  - Prioritise Developer Experience
  - Improved API Catalogue Management
THANK YOU!