The CWS noted that the XML4IP Task Force discussed the need to develop model Web APIs to better support IPOs to implement the new WIPO standard in a harmonized way.

The model Web APIs are intended to provide common APIs based on the new standard proposal, which can be easily customized by IPOs if required.

The CWS further explored business cases for common Web APIs and approved the exchange of patent legal status data according to WIPO Standard ST.27.

The Delegation of Australia offered its active collaboration in the patent legal status proof of concept.
Objective
• Facilitate a real time or regular legal status data exchange or dissemination by IPOs

Scope
• Data exchange between IPOs and data from IPOs to end users for
  – Patent legal status (current target)
  – Design legal status (future)
  – Trademark legal status (future)
Patent Legal Status API Implementation Plan

January 2019
- Review current version of WIPO Standard – ST.27

February 2019
- Provide objective & scope
- Establish data availability

March 2019
- Use Cases discussion
- XSD discussion Standard ST.27

April – June 2019
- Commence API build
- Commence API specification development

July 2019
- Present on API development progress

Aug – Oct 2019
- Complete API build
- Internal testing
- External testing
- Specification review

November 2019
- API Testing
Use Cases

1. Client requests all legal status events that have occurred during the given Date Range at the IPO for all types of IPRs.

<table>
<thead>
<tr>
<th>Request</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office code</td>
<td>Office code</td>
</tr>
<tr>
<td>Date range</td>
<td>Date range</td>
</tr>
<tr>
<td></td>
<td>Legal Status data payload</td>
</tr>
</tbody>
</table>

2. Client requests all legal status events occurred for an individual IPR (patent, trademark, design, etc.) grant or application.

<table>
<thead>
<tr>
<th>Request</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office code</td>
<td>Office code</td>
</tr>
<tr>
<td>Application / IPR number</td>
<td>Application / IPR number</td>
</tr>
<tr>
<td></td>
<td>Legal Status data payload</td>
</tr>
</tbody>
</table>
3. Client requests most recent changes i.e. a new event has occurred in the previous time period – to be based on Office Journal publications i.e. weekly

<table>
<thead>
<tr>
<th>Request</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office code</td>
<td>Office code</td>
</tr>
<tr>
<td>Date range</td>
<td>Date range (predefined)</td>
</tr>
<tr>
<td></td>
<td>Legal Status data payload</td>
</tr>
</tbody>
</table>

4. Client requests information only on specific State, Stage(s) or Key Events for all IPRs or individual IPR – this type of query is often important for Patent Analytics

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Office code</td>
<td>Office code</td>
</tr>
<tr>
<td>Date range</td>
<td>Date range</td>
</tr>
<tr>
<td>Application / IPR number / All*</td>
<td>Application / IPR number / All*</td>
</tr>
<tr>
<td>State / Stage / Key Event</td>
<td>Legal Status data payload</td>
</tr>
</tbody>
</table>
Patent Legal Status API

Legal Status Data API – Experience Layer

Legal Status Data API – Process Layer

Elastic Search

Patent Data Sync (IPA)

M2M

Common API for re-use

API doco and RAML/OAS speci
RAML Definition

```rml
definition

```

Legal Status API

```

API endpoints

```

```

P TM D PBR
Mock Service Input Screen

**Get**

**Request URL**

https://anypoint.mulesoft.com/mocking/api/v1/links/0da6ae6f-5b82-48cf-9700-3c94f

**Query parameters**

- applicationNumber*
- fromDate*
  - dd/mm/yyyy
- toDate*
  - dd/mm/yyyy

**Headers**

**Send**

Fill in required parameters
ST.96 XML Output

```xml
<apipatent xmlns="http://www.wipo.int/patentlawgra PatentLegalStatusData>
  <patentLegalStatusData>
    <ApplicationIdentification>
      <ApplicationNumber>102011123456789</ApplicationNumber>
    </ApplicationIdentification>
    <StatusEventDate>
      <StatusEventIdentifier>004bc5f2-e116-4fef-93c1-b799c7164759</StatusEventIdentifier>
      <StatusEventCode>N06810811R129</StatusEventCode>
      <EventDate>2019-02-18</EventDate>
      <EffectiveDate>2019-02-18</EffectiveDate>
      <PublicationDate>2019-02-18</PublicationDate>
    </StatusEventDate>
  </patentLegalStatusData>
</apipatent>
```

ST.96 XML transformed to JSON output

```json
{
  "PatentLegalStatusData": {
    "PatentLegalStatus": {
      "ApplicationIdentification": {
        "PatentOfficeCode": "AU",
        "ApplicationNumber": {
          "102011123456789"
        }
      }
    },
    "StatusEventData": {
      "StatusEventDate": {
        "StatusEventIdentifier": "004bc5f2-e116-4fef-93c1-b799c7164759",
        "StatusEventCode": "N06810811R129",
        "EventDate": "2019-02-18",
        "EffectiveDate": "2019-02-18",
        "PublicationDate": "2019-02-18"
      }
    }
  }
}
```
Welcome to IP Australia’s API developer portal. Here you'll find APIs for connecting directly to various Australian Government IP services and information sources.
Contact us

michael.burn@ipaustralia.gov.au