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<!--
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Date:    May 26, 2010

This document describes the input and outputs the three APIs Polar Informations Common (PIC) is
providing for badging and sharing your data.

    1. An API that answers the questions "What are the licenses? What are their Ids and Names?"
    2. An API that answers the question "What information does the user need to provide to
generate a particular license?"
    3. An API that will generate and return license, in user specified format, based on the
information provided by the user.

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<!--

1. An API that answers the questions "What are the licenses? What are their Ids and Names?"

API URI:
========

http://testsnowtest.org/picbadgeapi/licenses/

======XML OUTPUT OF LICENSES QUERY======
-->
<licenses>
    <license id="pic_cc_zero">PIC CC Zero Waiver</license>
    <license id="pic_cc_by">PIC CC By License</license>
</licenses>

<!--

2. An API that answers the question "What information does the user need to provide to generate
a particular license?"

API URI:
========

http://testsnowtest.org/picbadgeapi/licenses/<licenseID>
```

```xml
NOTE: please see Creative Commons website for various field descriptions.
http://api.creativecommons.org/docs/readme_staging.html
-->

<!-- ======XML OUTPUT FOR CC ZERO WAVIER ' FIELDS====== -->
<licenseClass id="pic_cc_zero">
    <field id="title">
        <label>Title of work</label>
        <description>.....</description>
    </field>
    <field id="attribution_url">
        <label>Your URL</label>
        <description>.....</description>
    </field>
    <field id="terrority">
        <label> Territory</label>
        <description>.....</description>
    </field>
    <field id="creator">
        <label>Publisher</label>
        <description>....</description>
    </field>
    <field id="outputType">
        <label>Waiver's output format</label>
        <description>.....</description>
        <type>enum</type>
        <enum id="html">
            <label>HTML</label>
        </enum>
        <enum id="xml">
            <label>XML having HTML and RDF</label>
        </enum>
    </field>
</licenseClass>

<!-- ======XML OUTPUT FOR CC By License ' FIELDS====== -->
<licenseClass id="pic_cc_by">
    <field id="title">
        <label>Title of work</label>
        <description>.....</description>
    </field>
    <field id="workurl">
        <label>Attribute work to URL</label>
        <description>.....</description>
    </field>
    <field id="sourceurl">
        <label>Source work URL</label>
        <description>.....</description>
    </field>
    <field id="type">
        <label>Format of Work</label>
        <description>.....</description>
    </field>
```

```xml
        <field id="year">
            <label>Year</label>
            <description>.....</description>
        </field>
        <field id="description">
            <label> Description</label>
            <description>.....</description>
        </field>
        <field id="creator">
            <label>Attribute work to name</label>
            <description>....</description>
        </field>
        <field id="holder">
            <label>Holder</label>
            <description>.....</description>
        </field>
        <field id="outputType">
            <label>License's output format</label>
            <description>.....</description>
            <type>enum</type>
            <enum id="html">
                <label>HTML</label>
            </enum>
            <enum id="xml">
                <label>XML having HTML and RDF</label>
            </enum>
        </field>
</licenseClass>

<!-- 3. An API that will generate and return license, in user specified format, based on the
information provided by the user.

API URI:
========

http://testsnowtest.org/picbadgeapi/licenses/<licenseID>/issue

NOTE: only POST is allowed and "one of following input xmls" is expected.

NOTE:  A python example is listed at the end of this document.

======== LICENSE GENERATION API INPUT ======

## I put value for some fields to indicate that these are required field.
-->

<!-- ======XML INPUT FOR CC ZERO Waiver====== -->
<answers>
    <work-info>
        <title></title>
        <attribution_url></attribution_url>
        <territory></territory>
        <creator></creator>
```

```
        </work-info>
        <outputType>html</outputType>
</answers>


<!-- ======XML INPUT FOR CC By License====== -->
<answers>
    <work-info>
        <title></title>
        <workurl>url</workurl>
        <sourceurl></sourceurl>
        <type></type>
        <description></description>
        <creator></creator>
        <holder></holder>
    </work-info>
    <outputType>html</outputType>
</answers>


<!-- ======== LICENSE GENERATION API OUTPUT ====== -->

HTML output
----------- -->
<html><a href="http://polarcommons.org/ethics-and-norms-of-data-sharing.php"><img src=
"http://polarcommons.org/images/PIC_print_small.png"/></a><a href=
"http://creativecommons.org/licenses/by/3.0/" rel="license"><img alt="Creative Commons License"
src="http://i.creativecommons.org/l/by/3.0/88x31.png" style="border-width:0"/></a><br/> This
<span href="http://purl.org/dc/dcmitype/Text" rel="dc:type" xmlns:dc=
"http://purl.org/dc/elements/1.1/">work</span> by <a href="xcccccccc" property=
"cc:attributionName" rel="cc:attributionURL" xmlns:cc="http://creativecommons.org/ns#">
xcccccccc</a> is licensed under a <a href="http://creativecommons.org/licenses/by/3.0/" rel=
"license">Creative Commons Attribution 3.0 Unported License</a></html>


<!-- XML output (A Sample output from CC)
----------- -->
<result>
 <license-uri>http://creativecommons.org/licenses/by/3.0/us/</license-uri>
 <license-name>Attribution 3.0 United States</license-name>
 <rdf>
    <rdf:RDF xmlns="http://creativecommons.org/ns#" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs=
"http://www.w3.org/2000/01/rdf-schema#">
    <Work rdf:about="">
     <license rdf:resource="http://creativecommons.org/licenses/by/3.0/us/"/>
    </Work>
    <License rdf:about="http://creativecommons.org/licenses/by/3.0/us/">
     <permits rdf:resource="http://creativecommons.org/ns#Reproduction"/>
     <permits rdf:resource="http://creativecommons.org/ns#Distribution"/>
     <requires rdf:resource="http://creativecommons.org/ns#Notice"/>
     <requires rdf:resource="http://creativecommons.org/ns#Attribution"/>
     <permits rdf:resource="http://creativecommons.org/ns#DerivativeWorks"/>
    </License>
    </rdf:RDF>
 </rdf>
```

```xml
<licenserdf>
  <rdf:RDF xmlns="http://creativecommons.org/ns#" xmlns:rdf=
"http://www.w3.org/1999/02/22-rdf-syntax-ns#">
    <License rdf:about="http://creativecommons.org/licenses/by/3.0/us/">
      <permits rdf:resource="http://creativecommons.org/ns#Reproduction"/>
      <permits rdf:resource="http://creativecommons.org/ns#Distribution"/>
      <requires rdf:resource="http://creativecommons.org/ns#Notice"/>
      <requires rdf:resource="http://creativecommons.org/ns#Attribution"/>
      <permits rdf:resource="http://creativecommons.org/ns#DerivativeWorks"/>
    </License>
  </rdf:RDF>
</licenserdf>
<html><a href="http://polarcommons.org/ethics-and-norms-of-data-sharing.php"><img src=
"http://polarcommons.org/images/PIC_print_small.png"/></a><a href=
"http://creativecommons.org/licenses/by/3.0/" rel="license"><img alt="Creative Commons License"
src="http://i.creativecommons.org/l/by/3.0/88x31.png" style="border-width:0"/></a><br/> This
<span href="http://purl.org/dc/dcmitype/Text" rel="dc:type" xmlns:dc=
"http://purl.org/dc/elements/1.1/">work</span> by <a href="xccccccccc" property=
"cc:attributionName" rel="cc:attributionURL" xmlns:cc="http://creativecommons.org/ns#">
xccccccccc</a> is licensed under a <a href="http://creativecommons.org/licenses/by/3.0/" rel=
"license">Creative Commons Attribution 3.0 Unported License</a></html>
</result>


<!-- Sample Code to Generate the Badge (Python)

where MyXMLAnswers is the one of the input xml mentioned for this API-->
    myPICLicense = urllib2.urlopen(APIURL, data="answers = %s" % MyXMLAnswers).read()
```