Latin American Metadata Profile (LAMPv2)

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The Pan American Institute of Geography and History was created on February 7, 1928.

The PAIGH is an international, scientific and technical organization of the OAS (Organization of American States), dedicated to the generation and transfer knowledge in the areas of Cartography, Geography, History and Geophysics.
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LAMPv2 was prepared by the Pan-American Institute of Geography and History (PAIGH), with the cooperation of the CAF (Development Bank of Latin America) with its Geosur program, and the technical advice of the National Geographic Information Center (CNIG) of National Geographic. Institute of Spain and Editorial Team.

Editor Team

Working Group (Ad hoc)
40 professionals; 13 countries
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LAMPv2 uses the following standards:

• ISO 19115-1:2014
  *Geographic information — Metadata — Part 1: Fundamentals*

• ISO/TS 19115-3:2016
  *Geographic information — Metadata — Part 3: XML schema implementation for fundamental concepts*

• ISO 19106:2004
  *Geographic information — Profiles*

• ISO 19157:2013
  *Geographic information — Data quality*
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LAMPv2 methodological steps in a timeline

- First version of the "LAMPv2" by the editorial team
- LAMPv2 review by "National Geographic Information Center (CNIG) of Spain"
- LAMPv2 review by "Working Group" (Latin American Professionals)
- Consensus meetings with the Working Group (Ad Hoc)
- LAMPv2 document publication with XML schema.
Main features of the LAMPv2:

- LAMPv2 was declared by PAIGH as the Pan American standard to develop metadata at the XXI General Assembly of the PAIGH, Panama City in 2017.

RESOLUCIÓN No. 4

VERSIÓN 2 DEL PERFIL LATINOAMERICANO DE METADATOS (LAMPv2)

La 21 Asamblea General del Instituto Panamericano de Geografía e Historia (IPGH),
Main features of the LAMPv2:

**Sections or packets**

LAMPv2 defines a structured set of metadata elements in order to describe, in a standardized way, geographic data and services. It covers information about identification, extent, spatial and temporal aspects, the quality, the content and descriptions of it, reference systems, distribution and other properties of data and digital geographic services.

<table>
<thead>
<tr>
<th>ID</th>
<th>LAMPv2 sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1</td>
<td>Metadata application information</td>
</tr>
<tr>
<td>A.2</td>
<td>Metadata information</td>
</tr>
<tr>
<td>A.3</td>
<td>Identification information</td>
</tr>
<tr>
<td>A.4</td>
<td>Constraints information</td>
</tr>
<tr>
<td>A.5</td>
<td>Lineage information</td>
</tr>
<tr>
<td>A.6</td>
<td>Maintenance information</td>
</tr>
<tr>
<td>A.7</td>
<td>Spatial representation information</td>
</tr>
<tr>
<td>A.8</td>
<td>Reference system information</td>
</tr>
<tr>
<td>A.9</td>
<td>Content information</td>
</tr>
<tr>
<td>A.10</td>
<td>Distribution information</td>
</tr>
<tr>
<td>A.11</td>
<td>Metadata service information</td>
</tr>
<tr>
<td>A.12</td>
<td>Extension information</td>
</tr>
<tr>
<td>A.13</td>
<td>Citation and responsible party information</td>
</tr>
<tr>
<td>A.14</td>
<td>Information about the class used normally (scope)</td>
</tr>
<tr>
<td>A.15</td>
<td>Locale information</td>
</tr>
<tr>
<td>A.2.2.1</td>
<td>Data quality information</td>
</tr>
</tbody>
</table>
### Main features of the LAMPv2:

LAMPv2 has more than 200 metadata elements
LAMPv2 has 23 mandatory (minimum) elements to document data sets and 16 minimum elements to document web service

<table>
<thead>
<tr>
<th>Row N°</th>
<th>Name/role name</th>
<th>Definition</th>
<th>Obligation/Condition</th>
<th>Maximum occurrence</th>
<th>Data type</th>
<th>Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>D_Resource</td>
<td>an identifiable asset or means that fulfills a requirement</td>
<td>Use obligation from referencing object</td>
<td>Use maximum occurrence from referencing object</td>
<td>Class &lt;&lt;Abstract&gt;&gt;</td>
<td>Line 2</td>
</tr>
<tr>
<td>2.</td>
<td>Role name: has</td>
<td>resource has related metadata</td>
<td>OB</td>
<td>N</td>
<td>Association</td>
<td>MD_Metadata (Table A.2)</td>
</tr>
<tr>
<td>4.</td>
<td>DS_DataSet</td>
<td>identifiable collection of data</td>
<td>Use obligation from referencing object</td>
<td>Use maximum occurrence from referencing object</td>
<td>Specified class (DS_Resource)</td>
<td>Line 2</td>
</tr>
<tr>
<td>5.</td>
<td>SV_Service</td>
<td>capability which a service provider entity makes available to a service user entity through a set of interfaces that define a behaviour</td>
<td>Use obligation from referencing object</td>
<td>Use maximum occurrence from referencing object</td>
<td>Specified class (DS_Resource)</td>
<td>Line 2</td>
</tr>
</tbody>
</table>
Main features of the LAMPv2:

- LAMPv2 only has metadata elements from the ISO standards for geographic information
- Includes metadata elements to document the quality of the information according to ISO 19157
- LAMPv2 has an XML schema for GeoNetwork
Main features of the LAMPv2:

• To increase the use of LAMPv2, it is expected to be able to implement "LAMPv2" on ESRI platforms in the coming years.

• Since 2018, the PAIGH with the CNIG have given virtual courses on metadata (LampV2). Hundreds of professionals in Latin America have been trained in "metadata and LAMPv2"

• LAMPv2 is being used more and more by the countries of the region. Examples of use in: Chile, Colombia, Argentina
LAMPv2 is available (in English and Spanish) on the following websites.

https://www.ipgh.org/documentos-especializados.html

Thank You

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