

## Local Projects Database (LPD) Technical Description

The Local Projects Database (LPD) is a web-based tool for managing records on development assistance activities financed and/or implemented by development partners in a particular country. This open source java based application, allows inserting, maintaining and exchanging project data in a server cluster environment.

The LPD is created as an application package that can be customized to meet local needs, while preserving the data interchange format. For a general description and benefits of the LPD please refer to the [Concept Note document](#).

### 1. Core Features

The following table summarizes the core features<sup>1</sup> of the LPD:

Feature	Description
Project Data Capture Tool	Tool that allows the LPD host to generate project data from a number of local sources via XML or manual entry.
Project document repository	Allows the addition of resources to a project.
User Management/Login/Registration	Allows the user to register, log in and change password. It also allows admin to manage groups and users.
Multiple Language Support	Allows users to select the preferred language for navigation and content.
Organization & Contact Management	Directory of organizations with contact details, including people.
Personalization	Allows users a quick view to the organizations, contacts and projects that they have added. Also, to bookmarks, graphs and items submitted.
XML project harvester/publisher	Allows the harvest of data from partners to the LPD and from the LPD to AiDA via IDML initiative. ( <a href="http://www.idmlinitiative.org/">http://www.idmlinitiative.org/</a> )
Project Search	Ability to search for projects (simple and advanced search).
Approval Workflow	Allows admin to approve/reject the projects submitted (moderation process).
Stats and Graphs	Ability to view stats and graphs with a breakdown for sectors and countries.

### 2. The LPD as a Distributed Database System – How Data Relates to AiDA

<sup>1</sup> These core features might change a to some extent while the development process of the LPD is finalized

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The LPD data exchange (publishing and retrieving) is done via harvesters/publishers using XML. The LPD includes features that allow the export of data in the XML format. The LPD host organization (Country Gateway) can harvest data from a local partner. Data can also be exported to AiDA. When exporting data to AiDA, the XML file is published via the web server and contains all the new or modified projects on the LPD. Each project will be uniquely defined in the entire system but will have cross-referencing information to AiDA projects.<sup>2</sup> Selected metadata will also flow from AiDA to the LPD for cross-referencing only. Full export of data from AiDA to the LPD will not take place in this release since we do not have the rights and agreements with AiDA sources to do this.

The structure and format of the data captured by the LPD complies with the Development Gateway AiDA<sup>3</sup> data requirements since it uses the standard AiDA XML schema version 2.2. You can find a detailed description of the AiDA XML schema in the following site:

[http://open.bellanet.org/aida/schema\\_explained.htm](http://open.bellanet.org/aida/schema_explained.htm).

The data collected should also comply with the AiDA core elements and data requirements as described in the AiDA Data Specifications document, which can be seen here:

[http://www.developmentgateway.org/download/130793/AIDA\\_spec\\_summary-jan\\_03.doc](http://www.developmentgateway.org/download/130793/AIDA_spec_summary-jan_03.doc)

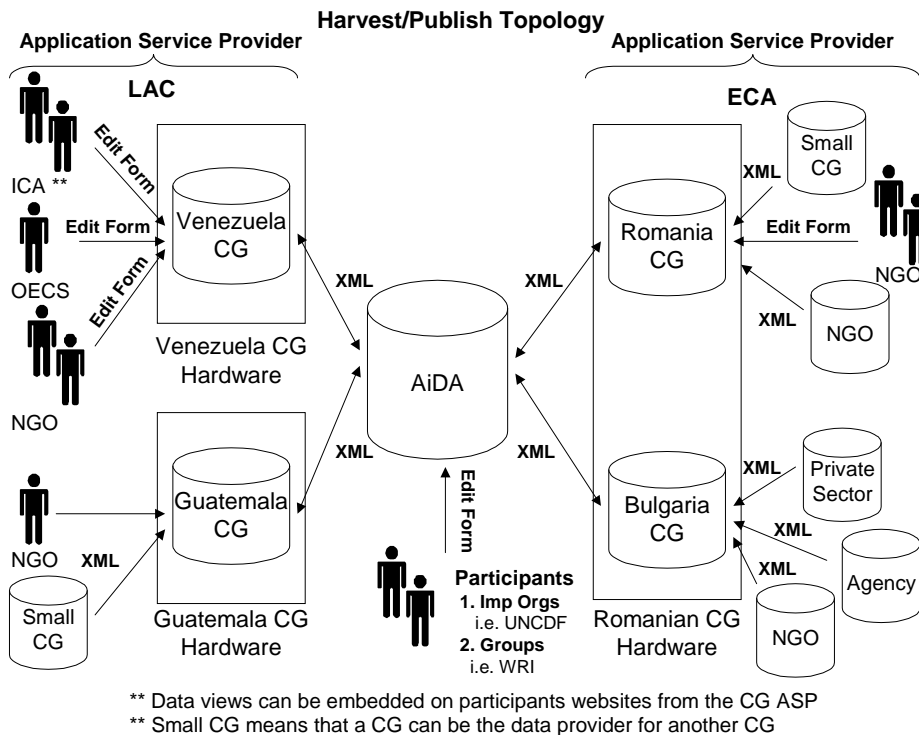
The following figure illustrates how data will flow from local partners to the LPD host organization (Country Gateway) and from the LPD to AiDA:

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<sup>2</sup> A cross-referencing tool will be built

<sup>3</sup> AIDA (Accessible Information on Development Assistance) - a global database of development activities.

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### 3. Technical Information

Operating System: LPD can be used on a Linux and on Microsoft Windows.

DBMS: LPD can be used with PostgreSQL and Oracle.

Web server: LPD runs on any servlet container software. It has been tested on Apache Jakarta Tomcat 4.1.x, but it is expected to run on other servlet containers as well (i.e.: Orion).

Skills: the following roles and skills are the ones we suggest. Keep in mind that only one person could play both roles:

- Developer -
  - Basic JSP
  - Basic Jakarta Struts/Tiles
  - Basic HTML
  - Graphical design skills if new colors/logos are required
  - \*\*\*Basic Java development (Model 2 & 3 knowledge would be good).....ONLY for minor business code changes(NOT RECOMMENDED)
- DB Admin -

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Postgres OR Oracle DB Admin skills  
Knowledge of basic db server installation on Linux OR Windows

#### 4. Support

The Development Gateway will offer limited business and technical support for the LPD adaptation.

The improvements and enhancements suggestions will be channeled through the Development Gateway. Requirements will be gathered, prioritized and included in new releases.

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