

## EXHIBIT A

### Connector Framework

Index Data will create a Connector Framework for OCLC. Its purpose is the creation, maintenance and distribution of a pool of Connectors to be used with the PazPar2 meta-search software package. Since many if not most of the databases that libraries meta-search have no standard protocol method of search and retrieval of records, connectors are required to make this search and retrieval possible. The role of the connector is to formulate and send the search to the database in the manner the database can accept and understand. It will then parse whatever results the database returns to convert them into records that are usable by PazPar2. For example, if the database only has an HTML Web interface, the Connector will behave as if it is a person typing a search into the Web sites search box. It will then take the HTML returned that would display on the screen and parse through it to locate individual records and convert them into a format for PazPar2's use.

The deliverable to OCLC has three main elements:

1. A wizard which will make the creation of Connectors a much simpler and more efficient process.
  - a. The wizard is to guide the creator of the Connector through the steps of analyzing how the database receives search requests, what search indexes are supported and if other search parameters such as sorting, filtering, etc. are supported. It will then assist in looking for patterns in the returned results to locate individual metadata records and convert them to the appropriate format for PazPar2.
  - b. The wizard will enable a novice programmer to create a working connector in less than four hours and support an iterative process of Connector creation for improving the Connector's performance.
  - c. IndexData will work with OCLC to make the Wizard available publicly for use by the Developer Network and others as required in the future. It shall then store the connectors in the central Registry Framework.
2. A Gateway to allow any Z39.50 client to use the Connector pool as a Z39.50 target. The Connector then performs the task of converting from Z39.50 to proprietary database search and retrieval and converting from database back to Z39.50
3. Abstraction of the Connectors to allow portability in where and how the Connectors are stored and accessed.
  - a. Index Data will collaborate with OCLC to make it possible to employ OCLC's Registry Framework for the storing of Connectors. It will adhere to the latest architecture of the Registry Framework in existence at the time of the Connector Frameworks creation.
  - b. Index Data will make it possible for PazPar2 to use the Connectors from their location in the Registry without duplicating them in another location. It is assumed the Gateway will perform this function but is still noted as a required outcome of the delivered software.