PROTOKOL *SIMPLE DIGITAL LIBRARY INTEROPERABILITY PROTOCOL* (SDLIP) SEBAGAI SISTEM INTERKONEKSI PADA APLIKASI PERPUSTAKAAN DIGITAL (STUDI KASUS UPT. PERPUSTAKAAN UNIVERSITAS JENDERAL SOEDIRMAN)

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INTISARI

Pengembangan teknologi jaringan perpustakaan digital dengan sistem interkoneksi akan memudahkan pengguna untuk mengakses informasi yang ada di berbagai perpustakaan yang ada di seluruh dunia yang sudah terhubung ke internet, dengan begitu maka manusia untuk memperoleh ilmu pengetahuan sudah semakin optimal, dalam satu waktu dan di satu tempat, kemudahan untuk memperoleh informasi dalam bentuk artikel, *paper, grey literature*, jurnal, dan lain-lain secara online.

Protokol *Simple Digital Library Interoperability Protocol* (SDLIP) merupakan standard kesepakatan sistem interkoneksi antara sebuah *digital library network* dengan network-network lainnya. Setiap network memiliki sekumpulan informasi dan data yang berbeda. Kerangka-kerja interoperabilitas diperlukan untuk integrasi antar network. Dalam tulisan ini dibahas tentang gambaran bagaimana sistem kerja protokol SDLIP yang di implementasikan di server *Library Service Proxy* (LSP) di Perpustakaan Universitas Jenderal Soedirman. Protokol SDLIP meliputi format metadata sebagai aspek penting dalam pembangunan interoperabilitas integrasi network.

Penggunaan protokol SDLIP untuk memudahkan pengaksesan informasi di berbagai perpustakaan digital dengan sebuah antar muka pencarian, kemudian permintaan query dilakukan dengan metode transport module berupa eXtensible Markup Lanuage (XML) melalui protokol HypertText Transfer Protocol (HTTP) based Dav Searching and Locating (DASL), hasil pencarian dikembalikan secara *synchronous* yang telah disediakan oleh server berupa interface yaitu *search interface, result acces interface* dan *metadata interface.*

Kata kunci *: network, user interface, digital library, interoperabilitas, protokol SDLIP, metadata, Library Service Proxy.*

Simple Digital Library Interoperability Protocol (SDLIP) as a Interconnection System in Digital Library Application (Case Study Library of Jenderal Soedirman University)

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ABSTRACT

Development of digital library network technology using interconnection system will allow the users to access information easily stored in various libraries connected to internet in the world. People can obtain the knowledge from various online information sources such as articles, papers, grey literatures, and journals.

Simple Digital Library Interconnection Protocol (SDLIP) is the interconnection protocol between a network digital library and other network (network of networks). Each network has a set of information and different data agree with the purpose of network development. The framework of interoperability network is needed to make integration between the networks. The purpose of this research is to implement SDLIP in the library of Jenderal Soedirman University. SDLIP is a standard interoperability framework used between sub networks in a network and between two networks. SDLIP includes metadata format as the important aspect in networks integration interoperability development.

SDLIP is a standard agreement of interconnection system between a digital library network with other network (network of networks). Each network has a set of information and the different data. Interoperability netwok is needed for integration in networks. This paper discuss how the SDLIP implemented in LSP server in library of UNSOED. SDLIP includes metadata format as the important aspect in network integration interoperability development. The use of SDLIP is to make easy access in various digital library using a search interface, then query request are conducted using module transport method XML through HTTP based DASL protocol, the result are returned syncronously what have been provided by server in the form of interface that is *search interface, result acces interface* and *metadata interface.*

Key word : network, network of networks, user interface, digital library (DL), interoperabilitas, protokol SDLIP, metadata.