

The LimeWire Peer Server

An Introduction

This exposition presents a high level overview of how to use and configure the LimeWire Peer Server. For general information about the LimeWire Peer Server, please visit [LimeWire](#).

Topology

Figure 1 below illustrates the basic setup of a LimeWire Peer Server system.

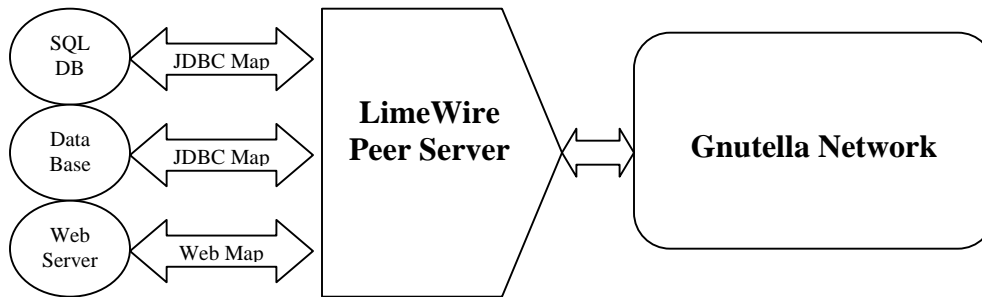


Figure 1

Figure 1 identifies the 4 main components of the LimeWire Peer Server system: Data Entities (Databases, Web Servers, etc.), Maps, The Lime Wire Peer Server, and the Gnutella Network. We'll cover each of these in turn.

Data Entities

Information is vitally important to many Businesses who make their money by dispersing information, while others depend on the retrieval of information. Information resides in many forms throughout the Internet; the LimeWire Peer Server supports access to all popular data entities. Figure 1 illustrates that various data entities, such as standard relational databases and HTTP Servers, are present at the back end of the LimeWire Peer Server system.

The LimeWire Peer Server can integrate any data entity into the Gnutella network via the configuration of a Map.

Maps

Starting with version 1.8, Lime Wire LLC distributes the LimeWire client with several XML Schemas. Users can perform 'rich searches' against these schemas; for example, a user can search for an audio file based on fields such as 'Title', 'Album', and 'Artist'. This feature is very convenient for users, allowing them to more accurately and powerfully search the Gnutella network. Moreover, this feature is an integral component of the LimeWire Peer Server model.

A Map is a transformation between an XML Schema (i.e. Realty, Books, etc.) and an existing data entity (i.e. Oracle DB, Slashdot News feed). A Map specifies how a data entity interprets a search against a XML Schema. For example, if Company X maintains a database of used books it sells, they can create a Map that allows Gnutella users to search for books and receive results that link to books in their database.

Creating a Map for the LimeWire Peer Server is very easy. To create a map for JDBC and HTTP data entities simply visit a configuration web page; configuration files allow for mapping of other data entities, such as feeds. For more information, please see the LimeWire Peer Server product directions.

Peer Server

The Peer Server is the gateway for Gnutella XML queries ('rich searches'). From the viewpoint of the Gnutella network, it is a standard Gnutella servent. Behind the scenes, it is a proxy for one to many data entities; it uses its predefined maps to query the appropriate data entity, and return to the Gnutella network any relevant results.

Gnutella Network

The Gnutella Network is currently a large body of 'File Sharing' servents. Lime Wire LLC believes it can evolve into a distributed and dynamic information platform. Today, searching the web is a 'dated' process – results may not be relevant. With Gnutella, searches hit sources dynamically, ensuring that results are timely and relevant. The LimeWire Peer Server is a first step in this migration; the Peer Server will allow businesses to serve their content profitably while affording much more convenience to users ('customers').

For more information, please visit [LimeWire](#).