Architecture

This system uses semi- server centralized and semi- peer to peer model. This model is based on a particular transaction. There are mainly four entities involved in this model (a particular transaction).

1. Customer
2. Carrier
3. Supplier
4. Index server

The rolls in the model do not represent the kind of client software.

The communication procedure is shown in the following picture.

Index server acts as a yellow page. It holds all clients’ information such as IP address, clients’ names. When a client wants to communication with others, it will first query index server for the information of others’. Client will update their IP address regularly.

Each client will act as one of the following roll in each transaction

Customer

Carrier

Supplier