

# Services without Network Traffic

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**Abstract:** Network services are being provided by means of dedicated service gateways. Traffic flows get directed only through service gateways, Existing practice is this. Service gateways placement has been primarily focused on minimizing the length of the routes through these gateways. Only limited attention have been paid to the effect of these routes which ultimately led to have an overall network performance. In order to solve service placement problem; traffic engineering must be taken into account. Instead of trying to minimize the length of traffic flow routes, the same can be enhanced the overall network performance. The problem can be sub-divided into two: They are as under finding the best location for each service gateway. Selecting the best service gateway for each flow. The problem can be solved with the help of algorithm and study performance. The main attention is showing that placement and selection of network services can be used as effective tools for traffic.

**Keywords:** Network Traffic, Wireless Application Protocol (WAP), Broadcast Technology.

## INTRODUCTION

### Existing System

Existing work on service gateway has been primarily focused on minimizing the length of the routes through these gateways. Traditional traffic engineering schemes are usually based on the employment of an underlying virtual circuit technology, like MPLS (Multi-protocol Label Switching), in order to select underutilized links. The service placement problem is addressed in the offline context by considering the long-term average distribution of the source-destination traffic for each service type, which can be obtained using traffic matrix estimation techniques.

The problem can be divided into the following two sub problems:

Service Placement problem: Finding the best location for each service gateway, and Gateway selection problem. Selecting the best service path to accommodate each flow.

### Disadvantages

- Congestion Problem in Packet Transmission
- Service Gateway Selection Problem
- Path Placement Problem
- Packet Jitter Problem
- Delay in Packet Transmission.

## PROPOSED SYSTEM

The service placement problem which takes into account traffic engineering consideration is to be decided on the best location for each service gateway. That is, each flow is associated with a service gateway, which is determined by current network conditions. Calculate the bandwidth of each service gateway and choose maximum width service gateway. Analyze the network status of available path and calculate the delay time of each path. And sort out the delay time and select which path has minimum delay time. Data transmit through that best path.

### Advantages

- Avoid service gateway selection problem by using MAX-BW Algorithm

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- Reduce the packet transmission delay
- Avoid placement problem by using Est-Opt Algorithm
- Avoid congestion problem in packet transmission
- From this algorithm use suitable bandwidth for the time to sender to receiver packet transmission.

### Modules

- Node Registration
- Service Gateway Selection
- Path Calculation
- Message Transmission

## MODULE DESCRIPTION

### Node Registration

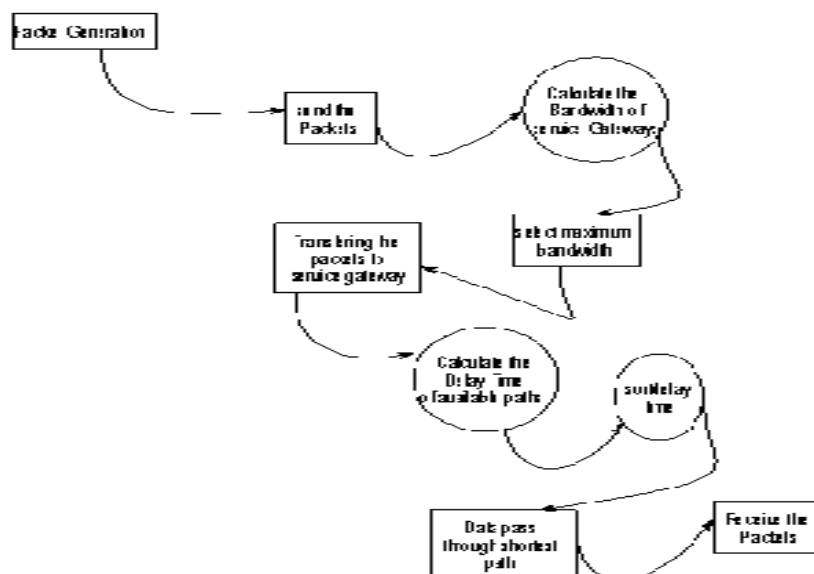
Construct a topology with individual Nodes. Topology consists number of nodes in Network. Node enters IP address, port number, Node name in to server system at the time of user login. Server maintains one table for collecting and maintaining the details of each node. Node enters the details of links in to server system. Server maintains those details also.

### Service Gateway Selection

Max-BW algorithm for select the suitable service gateway. Calculate the bandwidth of each service gateway by using control packets.

Bandwidth is nothing but no of bits per second. Estimate the transfer rate of each service gateway and select the maximum bandwidth service gateway. Data are pass through this Service Gateway to Destination and Calculate the Best path also

### Data Flow Diagram



### Path Calculation

Service gateway uses Est.-Opt algorithm for select the suitable path.

Calculate the delay time of each available path and then sort those delay times. Select the first path among the sorting order. This path has minimum traffic rate so packets are send through this path in fast manner. So Congestion reduces in data transmission and delay also reduce by use this shortest path.

### Message Transmission

Packets transmit through that path from source to destination. Receiver receive all packets and then display the receive content. Storing the received message means using the save message box we choose the destination. Save message box open the file dialog box and select the destination position in the system the content stores on particular position by create the file and write the content to that file.

## CONCLUSIONS

The content stores on particular position by create the file and write the content to that file.

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