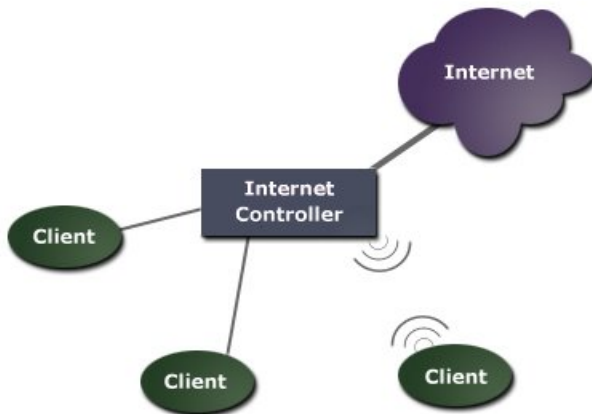# *ITcon Internet Control & Connection Management Service*

Most companies claim uncontrolled ADSL download & upload operations. By using our solution, the problem is no more annoying because the internet connection is controlled according to the company's policy; therefore internet performance is gained effectively.

This service protects your ADSL bandwidth from misuse by assigning each workstation a pre-defined bandwidth & quota, which if exceeded, will trigger a speed-limiting protocol on the specific workstation, without affecting the rest of the network.

This service doesn't require complicated servers, cost effective, and the most feasible applicable solution for your company's network or internet!

Fast Facts

✓ Layer 3 Speed manager
✓ TCP/IP speed limiting and prioritization system
✓ Distributed state for client-only networks
✓ Traffic monitoring & logging
✓ Service Remote management
✓ Deep Packet system of Inspection
✓ Assured rate provision
✓ Internet performance measures from 56 kbps to 2,400 Mbps
✓ Wireless network support
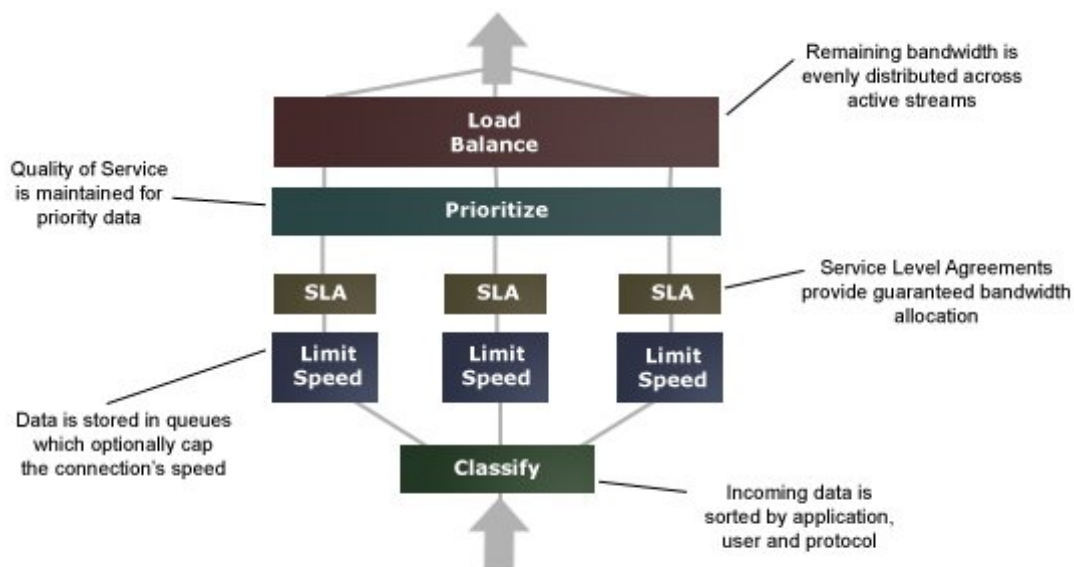✓ Large number of concurrent users

Overview

Internet Control & Connection Management Service is a complete speed management solution for IP based networks. It provides network administrators with traffic control and flow control capabilities, including automated components for internet allocation and provision.
After installing the service on any machine, access is gained to all internet speed being used by the network. Each traffic stream can be controlled using a combination of prioritization, guaranteed service levels and speed limiting & control. The classification system allows full shaping for all types of traffic such as VoIP, games, video, web, email, and even the network.

Architecture

The product consists of a core intelligent processor within the IP stack that performs low level speed services like traffic monitoring and speed limiting & control. Incoming network packets are inspected and queued based on class. The data is later processed by user-defined and automated systems before being returned to the operating system for normal processing.

Load Balance — Remaining bandwidth is evenly distributed across active streams

Prioritize — Quality of Service is maintained for priority data

SLA **SLA** **SLA** — Service Level Agreements provide guaranteed bandwidth allocation

Limit Speed **Limit Speed** **Limit Speed** — Data is stored in queues which optionally cap the connection's speed

Classify — Incoming data is sorted by application, user and protocol

Deployment

For larger networks (1000 Client computers & Up), a single point of installation gives administrators centralized management and control of network resource allocation, providing greater flexibility and security over client-side solutions.

The speed control server runs on the gateway computer and controls all user traffic between the internet and intranet. No client software or configuration is needed except for the manager application which can be installed on any machine for remote management of the server.

Gateway Mode

Processing is performed on the internet gateway or server

No client software or configuration is needed
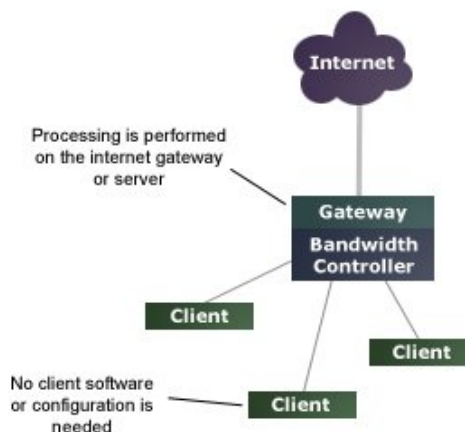
Router-Only Networks

The product can also be deployed in server-free mode which is suitable for networks that use a hardware modem or router instead of a gateway computer. All traffic is processed by a thin client application that spreads bandwidth evenly across active clients.

In the diagram on the right, each client receives 33% of total internet speed. When one of the clients finishes using the network resource the remaining two computers are given 50% each.

Distrubuted Mode

No server or computer is needed

Clients form a mesh to provide equal bandwidth distribution and balancing

where consultation meets target