

CLOVERLEAF VoIP Softswitch

SIP/H.323/TDM

The **CLOVERLEAF Softswitch** is the engine for a small or large VoIP Telephone Company solution. Based on your current size or anticipated growth the **CLOVERLEAF Switch** starts at 100 Ports upgradeable to 300 / 600 Ports or start at 1,000 Ports upgradeable to 2,000 Ports. Our technology provides you with advanced user friendly features and trouble free operation. For more robust and trouble free performance the operating system is Linux.

Key Features and Benefits:

Least Cost Routing

The LCR application allows the customer to define the preferred routing based on price, carrier quality or available routes. These criteria can be combined or used in conjunction to stream line the efficient processing and delivery of traffic to the destination L.E.C. and or long haul underlying Carriers.

Call Rating

The Call Rating Application allows the customer to build or import a custom rate table which can be cloned and modified to include a percentage mark-up, a base rate, a surcharge, free time, minimum call time, minimum and max call duration and subsequent time period length. Separate rate tables can be applied to each customer. Rate table editing can be performed on the fly down to individual country and city codes.

Billing System / Reports

The Billing application allows the customer to apply custom rate table charges automatically to the traffic on a per customer and per call basis. The **CLOVERLEAF Billing** application will track and isolate charges separately by agent, distributor, dealer and for end user. The System maintains a real- time database of Call Detail Records. The Billing application allows for pulling reports based on Customer Name, IP address, ANI and Inbound vs. Outbound traffic. These reports are generated by range of dates and based on cost or selling price.

Call Authorization

The **CLOVERLEAF** switch will perform a Gatekeeper function interacting with the customer Pre-Paid Balance or Credit Balance. Authentication by the client for H.323 is done by IP, or Mac address. If the customer reaches their Prepaid or Credit limit, traffic will be denied until replenished. For SIP customers the switch will interact with the SIP Proxy to authenticate, authorize and log the call.

Customer Interface

Your Agents, Distributors, Dealers and End Users can be granted secure access to the **CLOVERLEAF** platform, via a user friendly HTTP Browser interface. This access allows the users to view their account or in the case of agents and distributors all their down line account information. Data available to be viewed by the customer includes credit balances, gateway or site information, rates, complete Call Detail Records. By empowering your customers to access their information directly this will reduce the work load on your customer service personnel Options: Calling Cards, IVR, Conferencing, Voice Mail.



CLOVERLEAF VoIP Softswitch

SIP/H.323/TDM

Management Tools:

Embedded HTTP and Telnet interface for remote access and maintenance.

Specifications

Software

Operating System; Linux, Fedora, licensed
Gatekeeper: GNU-GK, open source
Data Base: Faircom, MS SQL, licensed
Data Base: Postgres, My SQL, open source

Call Capacity

100 port; 100 concurrent calls (in or outbound)
300 port; 300 concurrent calls (in or outbound)
600 port; 600 concurrent calls (in or outbound)
1,000 port; 1,000 concurrent calls (in or outbound)
2,000 port; 2,000 concurrent calls (in or outbound)

Hardware 100, 300, 600 Ports

Dell 1850; 1U Server equipped with: Dual Intel Xeon Processors, 3.0 GHZ, 800 MHZ Front End Bus, 2GB RAM, 146GB 10K RPM SCSI Hard Drive, Redundant 500W Power Supplies, Base Board Management controller

Hardware 1000, 2,000 Ports

2ea Dell 1850; 1 U Servers equipped with: Dual Intel Xeon Processors, 3.0 GHZ, 800 MHZ Front End Bus, 4GB RAM, External Hard Drive Raid 2ea. 146GB 15K RPM SCSI, Redundant 500W Power Supplies Base Board Management controller

Interface Ports

Rear: Two RJ-45, one 9-pin serial, two Universal Serial Bus (USB) 2.0, Video, PS/2 mouse, PS/2 keyboard, ID push button with blue/amber LED, RJ-45 for optional DRAC 4/I management controller

Front: Two Universal Serial Bus (USB) 2.0, ID push button with blue/amber LED, 15-pin video, system power on/off button Physical Specifications:

1U Rack Mountable Chassis, 76.2 cm (30") D x 48.26 cm (19") W x 4.29 cm (1.69") H
AC Power 110 ~ 220VAC / Optional 48VDC
Rack Weight 17.69kg (39 lb)



1200 W. 7th Street, Box 1A, Los Angeles, Ca 90017
PH 213-225-2200 FAX 213-225-2211 www.freeway.com