Core4Switch

Database Support	MySQL, PostgreSQL	
OS Support	redhat, CentOS, ubuntu, SUSE	
Browser Support	Safari, Firefox, Chrome, Opera	
Mobile Support	symbian OS, ANDROID, iOS, Windows Mobile	
Virtualization Support	redhat, vmware, Xen	

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High Performance Class4/Class5 Softswitch and Billing Platform

Core4Switch is a versatile switching platform with integrated billing. Its robust and flexible architecture has been designed to meet the particular requirements of retail as well as wholesale VoIP operators. Its standalone single Server deployment provides small to medium service providers an easy start, while its deployment in distributed architecture makes it suitable for large IP carriers.

- Wholesale Services for IP to IP calls
- Retail services for calling card, callback, callshop
- Layer 5 Reseller System to Manage Distribution
- Complete Solution for IPTSPs, MVNOs, Call Centers
- Integrated Mobile and PC VoIP Messenger Services
- Clustering Solutions for Telecom to handle millions of users and traffics

AUTHENTICATION SERVER
Single authentication authorization and address translation.

REGISTRAR SERVER
Registration based on authentication, authorization and location detection

ROUTING SERVER
Call routing and route Caching and User to User Intelligent Call Management.

NOTIFICATIONS SERVER
This server initiates all the notifications to administrators, resellers and clients.

CORE SAVER
Encryption, Decryption, Packet saving, Qos Based on Packet Calculation

MEDIA GATEWAY
Playing IVR for calling card users

STUN SAVER
Provides RTP proxy for NAT

PASSWORD MANAGEMENT SYSTEM
Provides encrypted password and decrypt based on user demand

MESSENGER SERVER
Provides services for User to User messaging system, Message archiving, File Sharing

FRAUD DETECTION SYSTEM
Intelligent Fraud Detection & Blocking System

BILLING SYSTEM
Providing full features management with Level 5 reseller system.

SECURITY CONTROL SYSTEM
Provides the full security management for the administrators, resellers & clients

RECORDING SERVER
Supports On Demand Call Recording for auditing and QoS purpose

PBX SERVER
Acts as an alternative of IP PBX, Mobile PBX

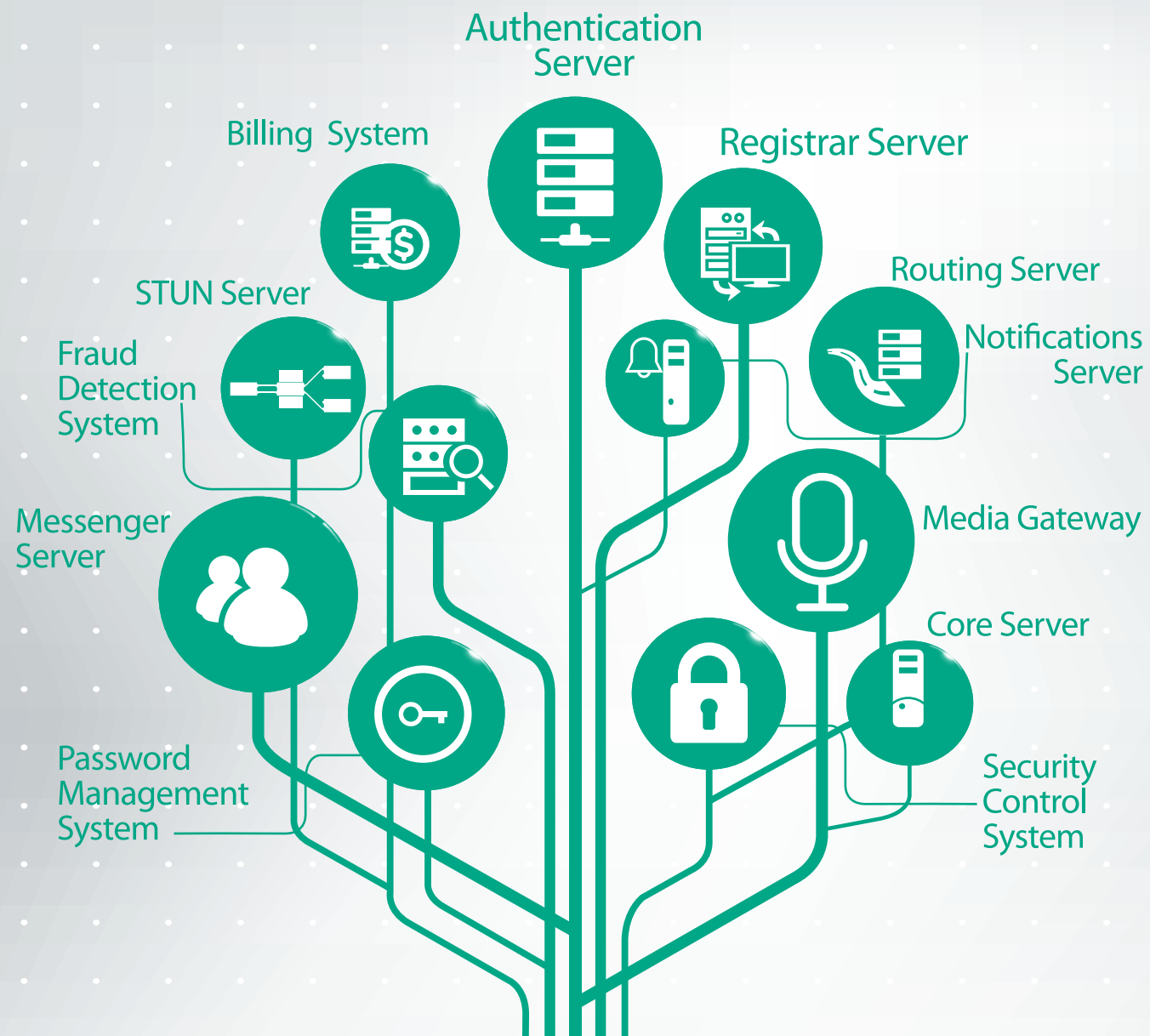|	
Wholesale and Retail	It can operate as wholesale or retail or both. Its class5 and class4 features give all in one support for VOIP providers to run their business.
Built In SIP Firewall	SIP Firewall with Intelligent Behavior Tracking General Firewall - Suspicious Activity Tracking Hackers IP Directory for Protection
Access Control Layer	2FA Authentication (Software Token and Hardware Token) SSL Certificates for man in the middle attack protection - Protection for Hijacking, Spoofing, Tempering, Repudiation, Fixation, Brute force, CSRF
Secured Billing	Signup scope is available from Mobile and web for the end users.
Data Migration	Core4switch offers easy migration tools from any other soft switch platform. It ensures quick migration. So your business downtime will not be more than 30 minutes. We also ensure highest migration accuracy which includes error free and quickest migration.
Advanced Routing	Advanced and Intelligent Routing Supports for Retail and Wholesale Scenario including route level concurrency control
Monitoring and Dashboard	C4S Monitor Provided real time calls analysis on active users. Also the Dashboard provided details information active call status, balance and payment information, easy recharge options, gateway status, monitor quality, call summary.
Mobile Banking and Top up	Support Manual and Automatic top up and Mobile Banking. API Integration is available for any mobile banking options.
High Performance	Core4switch is designed for high performance and reliability. In a single switching platform. It can handle 20,000+ concurrent calls with a stable and smooth manner. It can operate with 1300+ cps (calls per second) with no call drop and high speedy call connects.

Activity Tracking	Cores4witch built in audit trail help you to see all of the user activities including its location, browser type, IP Address and manage modification History
SMS Notifications	SMS Notifications is an option for 2FA token and critical activating reporting like soft switch restart, call limit changes, addition of IP Address
Interactive Voice Response (IVR)Voice Response (IVR)	IVR support is available with Core4Switch for English. Option allows customization for any language IVR and set with the system.
Android Applications for Resellers and Clients	An Android app is free in Google play store for the reseller and client management instead of reseller and client portal
Interactive Voice Response (IVR)	IVR support is available with Core4Switch for English. Option allows customization for any language IVR and set with the system.
Automatic Data Backup	Manual and Automatic Data Backup is available for administrator to keep the data backup for disaster recovery
API Integration	API Integration is available for any 3rd party tools like mobile dialers etc
User to User Calling Facility	Hassle free internal PIN to PIN calling system will help your user call them internally without any routing.
Mobile and PC Dialer	Mobile dialer for Symbian, Android, and iOS, and PC2Phone dialers are giving retails service providers a wide range of business.

Multiple Reseller Level	Core4switch currently supports up to five levels of resellers. All resellers have their own billing platform to manage their clients, payments and reporting
Easy Tariff Management	Core4Switch Provided easy rate management for administrator and reseller to apply rate changes immediately. Support export, import and processing of the rate sheets
Advanced Call Log	Call log features helps you to identify any call related problem to fix and gives you a detail view of full cycle of a call
Active Call Analyzer	Active call Analyzer will help you to compare hourly, daily and weekly call to increase the business
Mobile/Smartphone/Tablet Compatibility	Core4Switch Billing Interface is fully supported with Symbian, Android, IPhone, all Tablets and all PC Based Browsers
Theme Control	Theme Control provide administrators set the color and style based theme for administrator, resellers and end user as per the choice
Home Page Advertisement	Multiple features are built into the core4switch to help administrator to set advertisement, rates, download and news for reseller homepage.
Custom Branding	Custom Branding supports your to change the logo, color, header, footer of the application as per the company branding guidelines
Advanced Reporting	Advanced Reporting will help you to get the bill analysis, call summary, Quality etc.

Payment Gateway Integration	Core4Switch Supports Payment gateways Like Paypal, easy pay way and others
Threshold Balance Control	Administrators and Reseller can set their clients minimum balance at which point customer should go for next recharge.
End User Web Panel	Portal Support End user to view balance, CDR and summary, also can update personal information.
Access Control Layer	Access Control Layer(ACL) groups can be defined for different type of administrations like support admin, super admin, tariff admin, monitoring admin etc. each layer cant access others layers resources if not permitted.
Free Signup	Signup scope is available from Mobile and web for the end users.
Settlement Account	Settlement account provides information on gateways, CDR, Summary, payment history and its usage for the vendors
Invoicing System	Administrators are allowed to generate invoice for postpaid customer and vendors on demand.
Online User Monitoring	Online Users chapter help you to monitor registered users and its idle time
Intelligent Registration Report	Registration report will help you to summarize monthly registration different dialers for different vendors. The report will help you to decide which dialers should be renewed for next month or which one is not needed
Configuration Management	Core4Switch allowed to change lot of required settings to change on demand for switching and billing from the administrator interface. Also provides mail/SMS and other vendor configuration require to change.

Authentication
Server

Billing System

Registrar Server

Routing Server

STUN Server

Fraud
Detection
System

Notifications
Server

Messenger
Server

Media Gateway

Core Server

Password
Management
System

Security
Control
System

Core4Switch

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Core4VoIP secure billing	Secure Billing for VPS and Core4Switch
Core4VoIP mobile dialer	Mobile Dialer Symbian, Andorid, iPhone
Core4Xtreme	Mobile Messenger, Internal Calling External Calling, File Sharing
AccounticaXL	Telecom Service Providers Accounting Supports VPS, Core4Switch and Other Softswitch

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