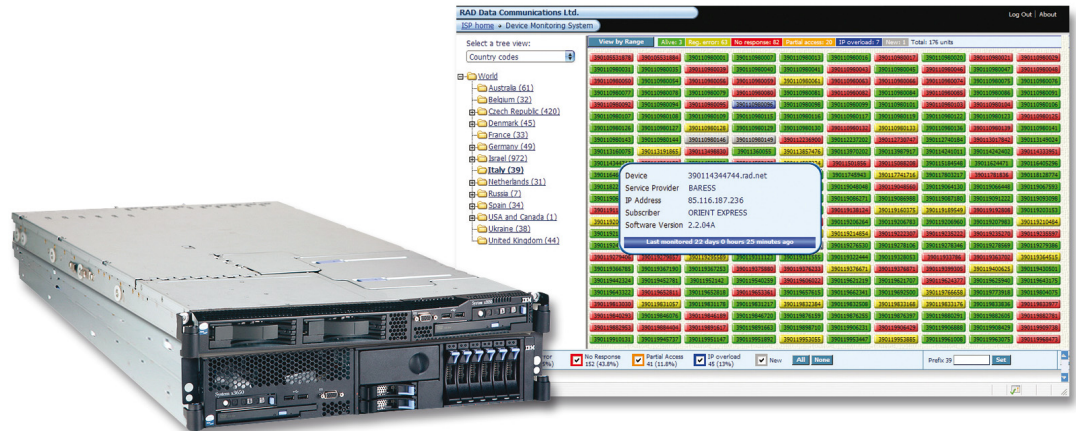


RVS

IPVsuite-200

SIP Class 5 Softswitch, Provisioning and Management System



IP Telephony
softswitch with
integrated Class 5
telephony services
featuring standard SIP
support and
provisioning system



- Integrated provisioning, monitoring and management system for the softswitch and CPEs
- Operator class switching performance of 400,000 BHCA (Busy-Hour Call Attempts) and above
- Highly-scalable distributed architecture for Carrier class switching performance
- Enhanced "Call Routing Management" capabilities
- User-friendly GUI for operator and end-customer

IPVsuite-200 is a carrier-grade softswitch solution using the SIP protocol that enables carriers and newcomers to integrate voice data and multimedia services on a comprehensive packet switching platform, providing extensive Class 5 (and partial Class 4) traditional and next generation services.

IPVsuite-200 is part of RAD VoIP System (RVS) product line that includes CPEs (IPVgate family), prepaid/postpaid billing (IPVsuite-Billing) and additional complementary elements.



IPVsuite-200

SIP Class 5 Softswitch, Provisioning and Management System

Using the wide range of services offered by IPvsuite-200, the service provider and the end user benefit from a next generation platform and can migrate from traditional switches and network to a pure SIP VoIP Access system.

IPVsuite-200 consists of a Class 5 SIP softswitch and an integrated provisioning and management system, which provides a complete and comprehensive central office solution for service providers.

IPVSUITE SOFTSWITCH

IPVsuite-200 provides standard CDR (Call Data Records) to billing systems and stores its data and configuration data in a robust Oracle database.

VoIP SIP SUPPORT

IPVsuite-200 enables connecting any standard SIP client after its authentication and registration.

Connected SIP clients benefit from Class 5 services provided and managed by the IPvsuite Softswitch.

FAILSAFE SUPPORT

IPVsuite-200 can be deployed in a distributed switch architecture to ensure system redundancy and carrier-class availability of service.

MANAGEMENT AND MONITORING SYSTEM

IPVsuite-200 includes the IPvsuite centralized service management platform. The IPvsuite includes one or several clusters, which consist of a communications server and a database (Oracle) server, to provide remote management, real-time monitoring statistics, network analysis, secured registration and other advanced services.

This comprehensive provisioning system enables providers to view, manage, maintain and configure various CPEs and applications installed in the network, thus reducing integration and operational costs of the CPEs (Customer Premises Equipment) network.

IPVsuite-200 provides key provisioning services such as security, address resolution, real-time monitoring, service activation, analysis and error management. It also generates usage and CDR information and provides massive remote upgrading capabilities.

RESELLER SEGMENTATION

The owner of the IPvsuite-200 (the main provider), can break this system down into segments. These segments or virtual subsystems are run by sub-providers - operators or resellers. This kind of segmentation allows the sub-providers to run their own VoIP service networks over the existing platform with zero cost of ownership.

Each sub-provider can create, monitor and manage his own subscribers, while the main provider maintains control over the subscribers of all the sub-providers.

END-USER WEB INTERFACE

IPVsuite-200 features a web interface that enables end users to access to account information, thus saving time and money for both user and provider and improving the user's quality of experience.

The web interface allows the customers to view call logs and manage their own accounts and services. This highly self-care oriented system offers unprecedented independence to the users and low-cost customer care to the provider.

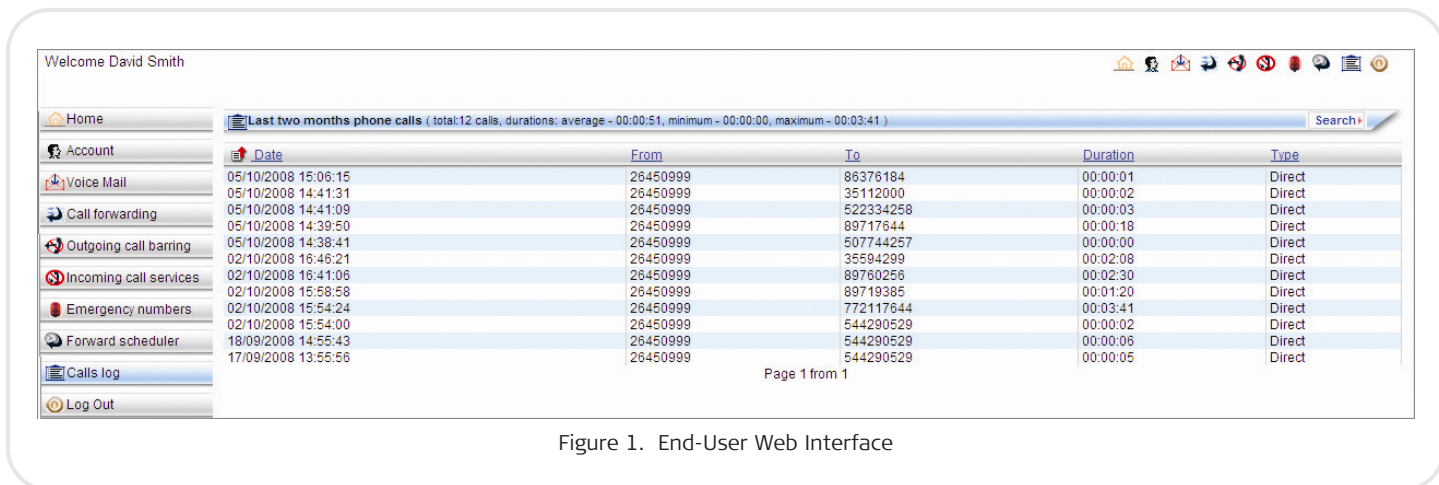


Figure 1. End-User Web Interface

IPVSUITE BILLING

IPVsuite-Billing, part of the RAD VoIP System (RVS), provides a comprehensive solution for postpaid and prepaid billing of SIP VoIP services. It is perfectly suited for fast deployment of advanced phone-to-phone, PC-to-phone and PC-to-PC services. The solution enables the provider to rapidly deploy competitive new services and rating plans.

Pay-as-you-grow

IPVsuite-Billing is a highly scalable system, designed according to the "pay-as-you-grow" model enabling the provider to launch a VoIP operation within a reasonable budget. This ensures that operational costs are proportional to revenues, while enabling expansion of licenses and hardware with customer base growth.

Advanced Account Management

The real-time interaction of the SIP application server with the network elements enables IPvSuite-Billing to control the call and cut it off as the customer's balance bottoms out, preventing leakage and securing the ROI.

For postpaid customers, comprehensive invoicing, account receivables and collection capabilities are a part of the solution, supporting residential, enterprise and SMB business models.

IVR Options

Fully integrated with RAD's IPvSuite-200 Class 5 SIP softswitch and provisioning system, the IPvSuite-Billing prepaid server includes service applications for zero-stage direct dialing services without IVR, single-stage dialing services with IVR (for registered prepaid subscribers) and dual-stage dialing services with IVR (for prepaid calling cards).

User-friendly Web Interface

The IPvSuite-Billing Web interfaces provide up-to-the-minute account information for both the subscribers and customer service representatives (CSRs).

Using the WebClient application, CSRs can easily create, search and modify Accounts, view account activities, balances and invoices, and manage support ticklers.

Customers are able to manage their own accounts, register to new services, and make payments online through Web-based self-care interface. Calling card customers can change their PIN numbers and top-up their balance via the Web or over the phone using an IVR system.

Full billing capabilities including invoice generation and shipment, account receivables (A/R) management, collection and General Ledger (G/L) interfaces with accounting systems are inherent to the solution.

Invoicing

IPVsuite-Billing gives providers the possibility to spread the billing and invoicing of the client base through the month, ensuring a steady flow of revenue. Multiple billing cycles can be predefined and assigned to customers according to the company policy. In addition, the system gives providers the possibility to personalize invoices by adding logos, taglines and special offers within the invoice with the invoice layout options.

IPVsuite-200

SIP Class 5 Softswitch, Provisioning and Management System

Specifications

SERVERS

Basic Configuration: 2 servers (front end and back end)

Redundant Configuration: 4 servers with high-availability cluster architecture

RAID disk

Oracle™ database

Linux Operating System

PROTOCOLS

HTTP/HTTPS server

FTP server

D-DNS server

IP-TELEPHONY

SIP-based Softswitch (stateful) supporting 400,000 BHCA and above

Call routing plans:

- Static
- Based on type of call (e.g., fax, modem)
- Based on caller/called
- Based on day and time

Personal end-user web pages:

- Call-log pages
- Service activation and configuration

Line grouping

MSN (Multiple Subscriber Numbers)

DDI/DID (Direct Dial-In/Direct Inward Dialing)

Compliant to leading VoIP media gateways

Compliant to SIP end-units:

- Soft-phones (e.g., Microsoft Messenger)
- IP phones
- IP-PBX

Reported on Wednesday 10th of December 2008 11:22:45 GMT

391 records found (list 21 - 40)

Subscriber Login Name	Device Number	Source address	Destination Address	Transaction Date	Event Date	Call Type	Duration
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 01:10:21 GMT	09 December 2008, 01:10:21 GMT	Registration	00:
daniel_o	97236455065	97236455065.radvoip.net	dblinux.mywww.ws	07 December 2008, 21:26:13 GMT	07 December 2008, 21:26:13 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 10:53:39 GMT	09 December 2008, 10:53:39 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 09:10:22 GMT	09 December 2008, 09:10:22 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 17:10:21 GMT	08 December 2008, 17:10:21 GMT	Registration	00:
daniel_o	97236455065	97236455065.radvoip.net	dblinux.mywww.ws	08 December 2008, 15:16:22 GMT	08 December 2008, 15:16:22 GMT	Registration	00:
idomiran	97289724684	97289724684.radvoip.net	dblinux.mywww.ws	02 December 2008, 01:44:49 GMT	02 December 2008, 01:44:49 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 08:10:21 GMT	09 December 2008, 08:10:21 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 06:10:21 GMT	09 December 2008, 06:10:21 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 18:10:21 GMT	08 December 2008, 18:10:21 GMT	Registration	00:
idomiran	97289724684	97289724684.radvoip.net	dblinux.mywww.ws	07 December 2008, 22:34:14 GMT	07 December 2008, 22:34:14 GMT	Registration	00:
idomiran	97289724684	97289724684.radvoip.net	dblinux.mywww.ws	07 December 2008, 12:19:07 GMT	07 December 2008, 12:19:07 GMT	Registration	00:
idomiran	97289724684	97289724684.radvoip.net	dblinux.mywww.ws	04 December 2008, 19:45:10 GMT	04 December 2008, 19:45:10 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 00:10:21 GMT	09 December 2008, 00:10:21 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 16:10:20 GMT	08 December 2008, 16:10:20 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	09 December 2008, 10:10:22 GMT	09 December 2008, 10:10:22 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 21:10:21 GMT	08 December 2008, 21:10:21 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 23:10:21 GMT	08 December 2008, 23:10:21 GMT	Registration	00:
juri	49219991213	49219991213.radvoip.net	dblinux.mywww.ws	08 December 2008, 19:10:21 GMT	08 December 2008, 19:10:21 GMT	Registration	00:
idomiran	97289724684	97289724684.radvoip.net	dblinux.mywww.ws	06 December 2008, 19:48:06 GMT	06 December 2008, 19:48:06 GMT	Registration	00:

Record # 1-20 21-40 41-60 61-80 81-100 Next>>

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Figure 2. Remote Analysis Report Page

CLASS 5 – TELEPHONY SERVICES

- Enhanced Voice Mail:
 - Personalization messages
 - Message forwarding
 - Voice-mail to Email forwarding
- Auto-Attendant
- Call forwarding:
 - ETSI dialing support activation
 - Web activation
 - Forward on Busy
 - Forward on No-Answer
 - Forward on Not available
 - Scheduled forwarding
- DND (Do not disturb)
- ACR (Anonymous call rejection)
- Incoming/outgoing call screening
- Incoming/outgoing call lock
- Home assistance (emergency dial when off-hook)
- Last call return
- Busy call retry
- 1-800 toll free numbers

CONFIGURATION

- Full end-unit Configuration replication
- HTTPS configuration to end-unit

MANAGEMENT

- CDR information aggregation
- Usage audit log (of configurations)
- Reports and statistics

EXTERNAL OPTIONAL SERVERS

- CDR extraction to billing servers
- XML configuration API from CRM systems
- Billing information back-to-back servers

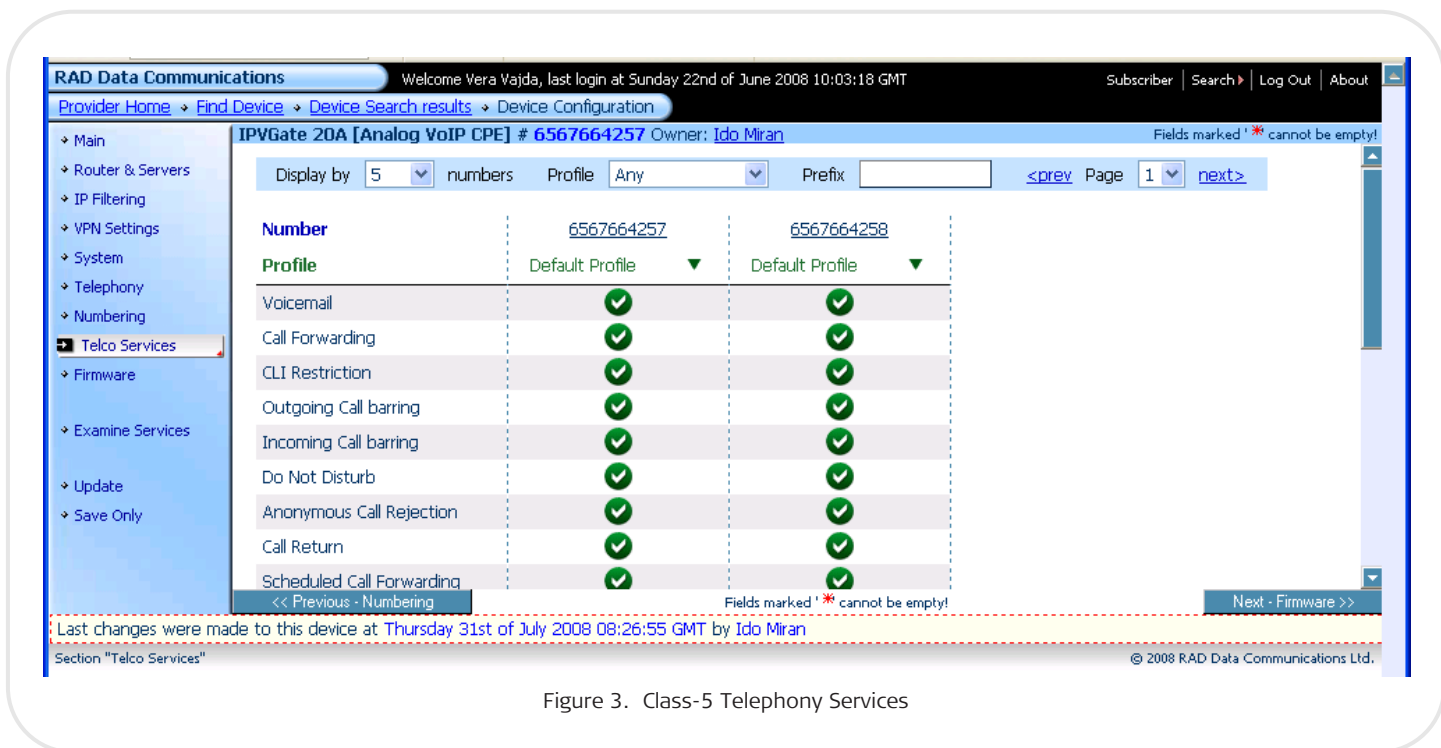


Figure 3. Class-5 Telephony Services

IPVsuite-200

SIP Class 5 Softswitch, Provisioning and Management System

Ordering

IPVsuite-200/400/HW

Provisioning and Management System including:

- Hardware (2 IBM System X servers: front end and back end)
- Oracle™ database
- Linux Operating System
- IPVsuite Licenses for 20 CPE's.

IPVsuite-200

Individually designed architectures on demand..

IPVsuite-LIC/*

IPVsuite Licenses per CPE

Legend

* Number of licenses:

100	Package of 100 licenses
500	Package of 500 licenses
1000	Package of 1000 licenses
5000	Package of 5000 licenses

RAD-ONSITE-RVS

Installation & Training for IPVsuite-200 system

RADCARE-INT'L-IPVS

Annual maintenance for IPVsuite-200 system

IPVsuite-200-Billing

Full postpaid and prepaid billing system for IPVsuite-200. For ordering please see *IPVsuite-Billing Data Sheet*.

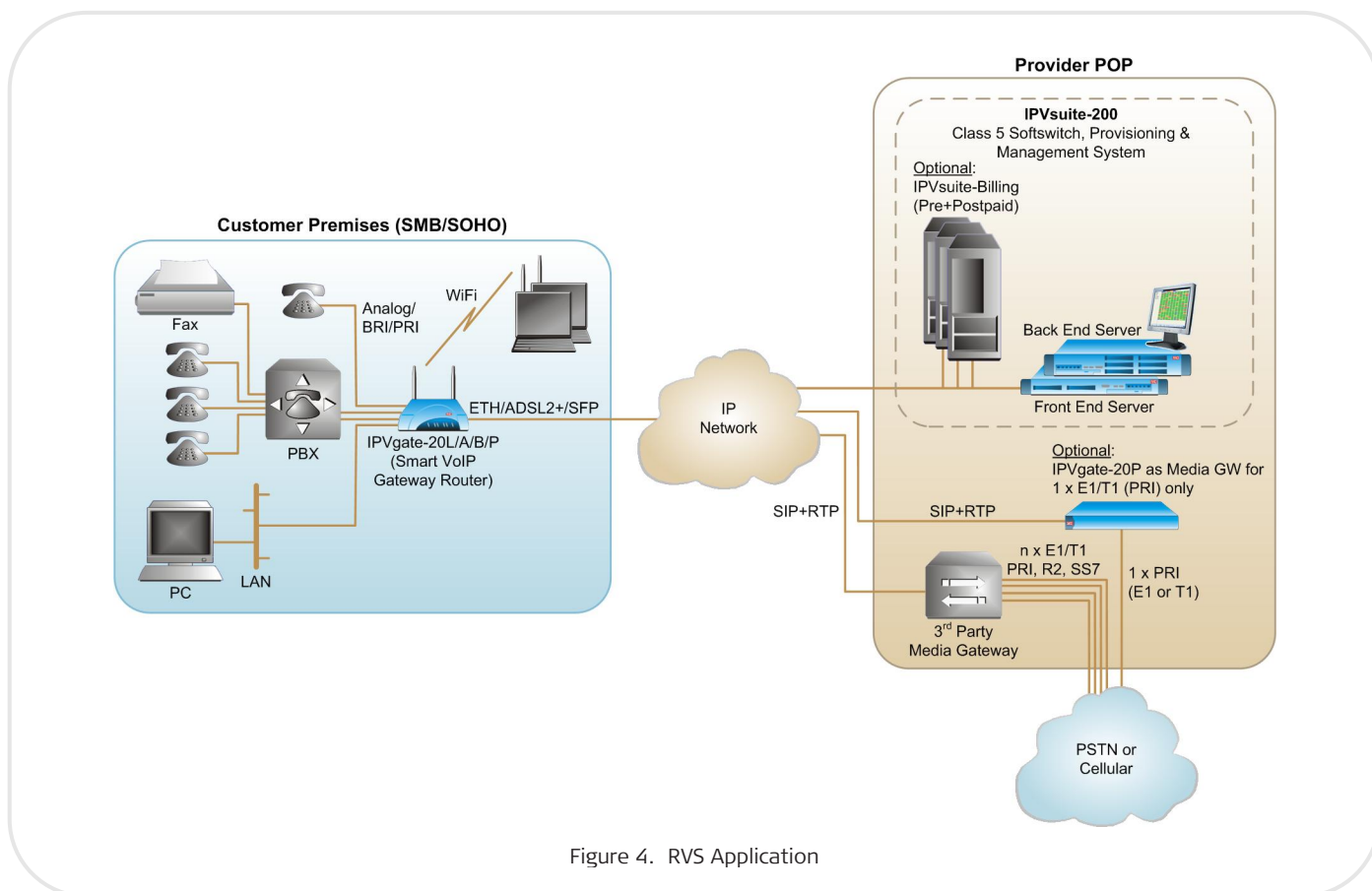


Figure 4. RVS Application

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