

# VOIP/VOICE



## High-Performance RADIUS Server and Converged Prepaid & Postpaid Billing



ISP, VOIP, Wimax, Mobile & Wifi Providers

# About Aradial Technologies

- Established in 1997
- Designer and provider of Billing, AAA and Policy control servers for IP services.
- Targets multiple vertical markets, primarily ISP, WiMAX, LTE, wireless LAN, VOIP, Cable/MSO and mobile
- Experienced personnel from top networking and billing companies
- Private, self funded, profitable



# Key Customers

# VoIP

- Net4India
  - VoIP provider with 2.5 M subscribers
- GCS - IDT
  - VoIP termination provider in USA
  - 100 million calls per month
- Globe Comm Systems
- Globe Wireless – USA/UK
- NetCiti / Datacom - Indonesia

# ISP / WISP

- Vodafone Ghana – GhanaTel
- Nepal Telecom
- MTN Uganda – Wifi 3G offload
- MTN Rwanda – Wifi 3G offload
- Smile / Orange Israel
- Bezeq Israel PTT – ADSL, Wifi and Wimax
- PMI – Philippe Morris – Enterprise
- Cable & Wireless (Seychelles)
- Hispasat Spain – VSAT – Policy deployment
- Bentley Walker – Canada
- Metrotel – Colombia
- Multivision - Djibouti

# ISP / WISP

- iBurst - South Africa
- BSNL - India - ISP
- Sahara Net - Saudi Arabia
- BPK - Russia - multiple installations
- Cable & Wireless Atlantic - broadband ISPs
- Rye Telecom - USA
- Jefferson Telecom - USA
- NewRoz Telecom - IRAQ
- Kuedistan NET
- Palau Telecom
- Disqom - Germany
- INEA - Poland

# LTE

- With Telrad
  - Safaricom - Kenya
  - Telecom Namibia
  - Togo Telecom
  - BlueSea - USA
  - Multitel - Angola
  - WAW - Senegal
  - IPX
  - QCell
- With Airspan
  - Telesol - Ghana
  - IP9 - Gabon
  - Vanuatu Telecom
  - Nepal Telecom
- With ZTE
  - Premier Broadband Wireless - USA
  - Afghanistan Telecom

# WiMAX

- Airspan – multiple installations
- Telrad – multiple installations
- Wichorus/Tellabs – multiple installations
  - Sprint USA
  - Augere Uganda
- Huawei and ALU - Mongolia
- Runcom – multiple installations
- Cambium deployments - Motorola PMP / Canopy



# Mobile

- **nPhase / Verizon Wireless**
  - 6M subscribers for supporting all the smartphones
- Maingate – M2M
  - 600,000 mobile subscribers in Sweden
- Orange Senegal
- Tigo Senegal
- STI – Mobile
  - mobile subscribers in Indonesia
  - Installation with FTS
- Telikom – PNG
  - With Telrad and Amdocs
- NSSL – UK
- Applied Satellite Technology– UK

# Hotspots/WiFi Installed Base

Over 350 hotspots billing installed worldwide

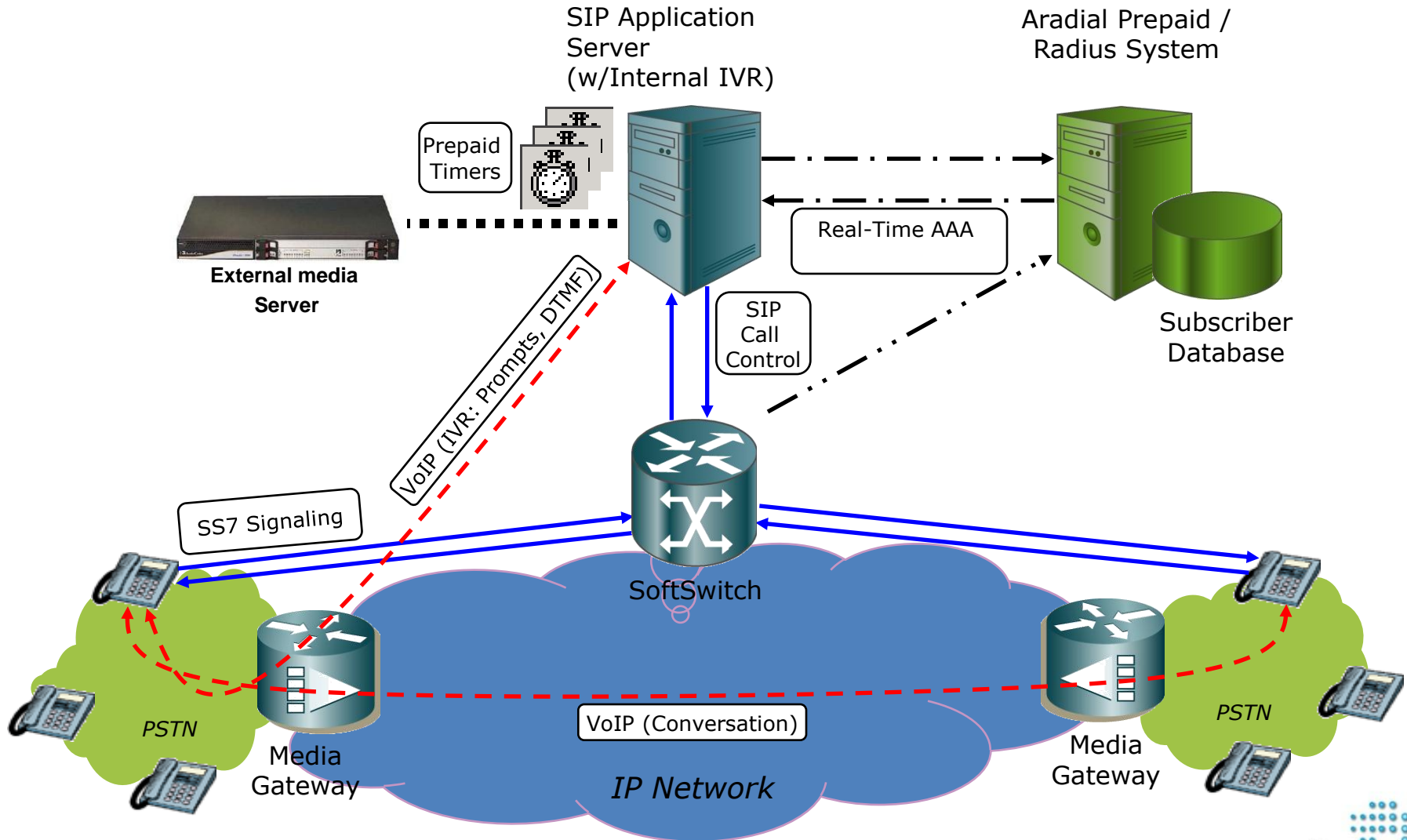
- Interstate USA
- Bell Aliant Canada
- Sealink Denmark
- Enter Point USA
- O'Fallon Wireless USA
- CSD Internet Ltd. UK
- Easy Kiosk - Australia
- PTK – Aruba networks
- Jamaica Telecom - Altai
- Saudi Telecom - Altai
- Angola Telecom - Inspair
- Namibia Telecom -Nomadix
- MTN Rwanda - Wavion
- BSNL – India - Nomadix
- MyPort Australia
- Paamul Mx– Motorola + MTK
- SmartLink KW -Nomadix



# Aradial Converged Billing

ARCB

# Architecture



# Aradial Supported Softswitches

- Soft switches and SIP proxy (Class 4/5)
  - Telrad / Genband
  - DIALOGIC
  - ACHME Packet SSW + SBC
  - Patton VOIP
  - Teles
  - RAD
  - NextGK
  - Asterisk
  - VocalTec
  - Mailvision
  - AudioCodes
- VOIP gateways
  - Cisco 53xx, 54xx
  - Quintum Tenor
  - OpenSIPS
  - FreeSwitch
- Any other that supports standard VOIP Cisco/SIP VSA

# Main Admin

ARADIAL Technologies

Home Accounts Vouchers Price Plans Offers Invoicing Receivables Data & Logs NAS & Proxy Configuration

Account [+Add](#) [Edit](#)

User [+Add](#) [Edit](#)

View Sessions

Business Partners

Resource Inventory Management

Trouble Tickets

Settings

LogOut

### Summary

**NAS & Proxy**

**Configuration**

**Online Sessions**

**View Sessions**

**Statistics**

**Vouchers**

**IP Monitoring**

**Data & Logs**

[>> License Details and Utilization](#)

#### Statistics

Users Online: 0 ([show](#)).  
Users in the database: 20 ([show](#)).  
Accounts in the database: 4 ([show](#)).  
Network Access Servers configured: 1 ([show](#)).

#### Session 1-hour Statistics

NasSim - 0 Users. Server is offline - (0/20 users connected)

Server Status: Start Offline

# Aradial Converged Prepaid & Postpaid, Multi IP Services

- VOIP and Data - Prepaid and postpaid subscribers
- Wholesale / Termination / Interconnect subscribers
- Customer Management
  - Account – shared balance for users
  - Users under account
  - Resource/ANI/CPE defined per users
- Business Partners and Reseller Management
  - Registering subscribers / account
  - Selling vouchers and prepaid cards
  - Receiving commissions
- Business Entity
  - Create market segmentation
  - Group subscribers and accounts

# Prepaid VoIP with Aradial

- Aradial VoIP supported services:
  - Direct calling using ANI/calling cards
  - IVR calling
  - Username / CLI / IP and any attributes
  - Peering
  - Termination and origination
- Two charging models:
  - Single session – entire balance is allocated for the user during the session
  - Multisession – the session is split into time quotas for all users that use a single balance



# Prepaid VoIP with Aradial (Cont.)

- Centralized authentication and accounting for all routers or gateways
- High-performance and reliable server
- Scalable to handle millions of users and concurrent sessions on low-end hardware Converged IP services
- SSL secured HTML-based administration

# Prepaid VoIP & Calling Cards

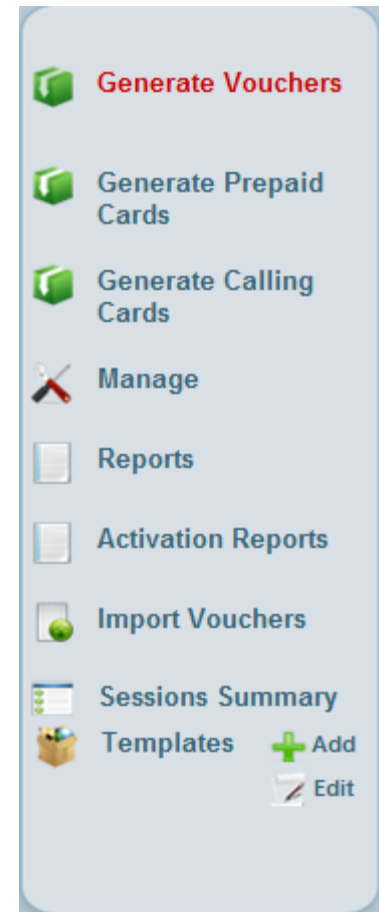
- Voucher management
  - Calling Cards
  - Top-up vouchers
  - Prepaid Cards for IP
- Calling-card life cycle: generation, import and export
- Username or ANI based (caller ID) prepaid VoIP billing
- Rating according to call destination, time of day, day of week (STEP and Tier)
- Different rounding intervals per tariff or per destination
- Call setup cost
- Replenishing API or voucher refilling with payment module.
- Support of multiple tariffs and destinations rating tables
- Session and summary reports per calling card, system, destination and period

# Aradial Converged Voucher management

- Voucher management
  - Top-up vouchers
  - Prepaid Cards - Activated on first use
  - Calling Cards
- Creating in Batches
- Generating and managing by Resellers/Business entity (self care for BE)
- Voucher reports including Revenue reports
- Vouchers used in Captive Portal and Self Care
- Advanced Life Cycle including export to files
  - Created
  - Shipped
  - Ready for use
  - In use

# Vouchers

- 3 kind of Vouchers:
  - Top-up Vouchers
  - Prepaid Cards (Anonymous user)
  - Calling Cards (VOIP)
- Reports
- Templates
- Manage vouchers



# Prepaid VoIP with Aradial (Cont.)

- Self-care user module
- User and calling-card management, rating, import and export from/to CSV files
- Balance, duration and traffic enforcement
- User concurrence enforcement and view of concurrent calls from the administration tool
- Optional integration with SNMP-based NMS
- Multiple admin types
- Admin activity tracking

# Aradial Converged Prepaid & Postpaid, Multi IP Services

- Product catalog
  - Price plans
  - Offers using price plans
    - Price plan
    - Network profile provisioning
  - One-time offers
  - Add on offers
- Flexible charging & rating
  - Periodic Recurring Charges
  - Usage charges
    - Allowances
    - Time of day and day of week
    - Destination charging
  - One-time charges

# Price Plan – Example

## Postpaid VoIP

- Setup fee
- Prorated RC
- Destination based
- Call setup

<b>Setup fee</b>	
Amount	<input type="text" value="10.00"/>
Charge Type	<input type="text" value="Setup Fee"/>
<b>Recurring charge</b>	
Period	<input type="text" value="Bill Cycle"/>
Rate	<input type="text" value="5.00"/>
Proration Type	<input type="text" value="First RC Proration"/>
Period Multiplier	<input type="text" value="1"/>
Charge Type	<input type="text" value="Monthly Subscription"/>
<b>Usage Rate</b>	
Usage Rate Type	<input type="text" value="Destination Based"/>
Usage Debit Balance	<input type="text" value="Money"/>
Charge Type	<input type="text" value="VOIP Usage"/>
<b>Rate</b>	
Destination Rate Table Id	<input type="text" value="A..Z table"/>
Period Set	<input type="text" value="All Week"/>
Rate Unit	<input type="text" value="Time"/>
<b>Call Setup</b>	
Cost	<input type="text" value="0.01"/>
First Round	<input type="text" value="1"/> Seconds
Second Round	<input type="text" value="1"/> Seconds

# Price Plan – Destination Table

## View Available Destination Table

Destination Rate Tables						
Name	Description	Action				
<a href="#">A2Z1</a>	A..Z table	<a href="#">Show Rates</a>	<a href="#">Add Rate</a>	<a href="#">Import</a>	<a href="#">Export</a>	<a href="#">Delete</a>

## View Destination Table Rates

Destination Rates										
Prefix	Access Code	Destination Name	Rate	Call First Round	Call Second Round	Period Set	TOD 1 Rate	TOD 2 Rate	TOD 3 Rate	Action
<a href="#">1</a>		USA	1.0000	1	1	All Week	2.0000	1.0000	0.5000	<a href="#">Delete</a>
<a href="#">1008</a>		Dominican Republic	0.0800	30	60	None	0.0100	0.0300	0.0500	<a href="#">Delete</a>
<a href="#">1809204</a>		Dominican Republic, Cellular-tricom	0.0800	30	60	None	0.0100	0.0300	0.0500	<a href="#">Delete</a>
<a href="#">18092355</a>		Dominica Rep Cellular_Codetel	0.0900	30	60	None	0.0100	0.0300	0.0500	<a href="#">Delete</a>
<a href="#">1809302</a>		Dominican Republic, Cellular-aacr	0.0800	30	60	None	0.0100	0.0300	0.0500	<a href="#">Delete</a>



# Price Plan – Period Set

## View Available Period Sets

Period Sets								
Period Set Name	Period 1 Name	Period 2 Name	Period 3 Name	Action				
<a href="#">All Week (1)</a>	Peak	Off Peak	Night	<a href="#">Show Periods</a>	<a href="#">Add Period</a>	<a href="#">Import</a>	<a href="#">Export</a>	<a href="#">Delete</a>

## View Periods

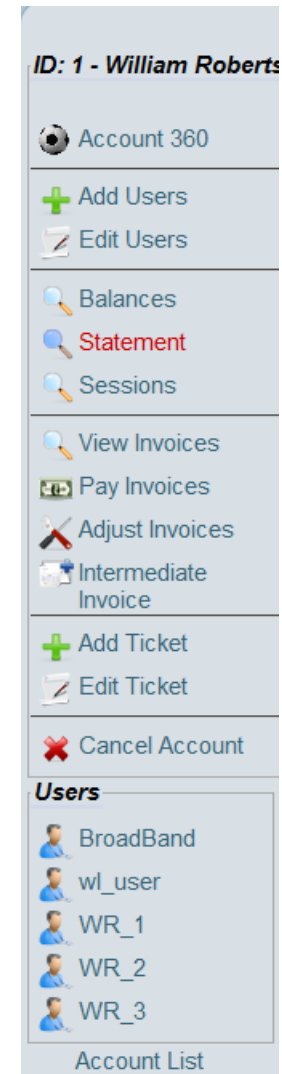
Period Definitions for Period Set: All Week			
Days range	Time Range	Period ID	Action
<a href="#">Sunday - Saturday</a>	00:00 - 06:00	Night	<a href="#">Delete</a>
<a href="#">Sunday - Saturday</a>	06:00 - 18:00	Peak	<a href="#">Delete</a>
<a href="#">Sunday - Saturday</a>	18:00 - 24:00	Off Peak	<a href="#">Delete</a>

# Aradial Converged Prepaid & Postpaid, Multi IP Services

- Web self care for users and accounts
  - Users and passwords management
  - Payments and invoices
  - Purchase new offers and upgrades
- Public portal for self registration
- Trouble ticketing
- Account and user operation
  - View financial transactions, sessions and calls
  - Payment by credit card or PayPal
  - Adjustments to invoices
  - Manual payments – cash, checks

# Account Navigation Pane

- Account 360
- Add users under the account
- Account balances (invoices, adjustments, etc)
- Statement report per account
- View sessions (all users under the account)
- Invoices (view, pay, adjust, issue)
- Add / edit tickets for the specified account
- Cancel account
- Browse users



# Account 360

## Account 360 View

Account Name: [3 - Tim Robinson](#)  
Home Phone: (7341) 677-2470

Company: CityPlus  
Work Phone: (7341) 677-2471

Address: 10-24 School Street , -  
Email: tim@mail.com

### Users

#### Account Users

User ID	Creation date	Time Bank	MB Bank	Balance
<a href="#">PaulS</a>	12/01/10 14:45:24	0:00:00	3072.000	-60.00
<a href="#">RebeccaA</a>	12/01/10 14:45:12	0:00:00	0.000	-10.00
<a href="#">LindaE</a>	11/03/10 21:58:40	0:00:00	0.000	0.00
<a href="#">JamesD</a>	10/14/10 14:32:15	0:00:00	3072.000	0.00

### Balances

#### Up to date Account Balances

Balance Type	Amount
Account Balance	-112.45
Postpaid Unbilled Balance	-70.00

### Payments

#### Financial Operations

Transaction Type	Effective Date	Amount	Reason
<a href="#">Payment 2</a>	12/01/10 00:00:00	264.55	User Manual Payment
Adjustment	11/01/10 00:00:00	-0.45	45
Adjustment	11/01/10 00:00:00	4.00	4

### Invoices

#### Issued Invoices

Invoice	Creation date	Invoice Total	Invoice Due	Paid Amount
<a href="#">5</a>	12/01/10 14:34:55	116.00	119.55	0.00
<a href="#">4</a>	11/01/10 14:32:56	264.55	264.55	264.55

### Tickets

#### Trouble Tickets list

Ticket Id	Creation date	Update date	Creator User	Assigned CSR	Category	Status	Account	Description
<a href="#">1</a>	12/01/10 14:43:55	11/03/10 19:01:09	admin			Open	Tim	Adjustment request

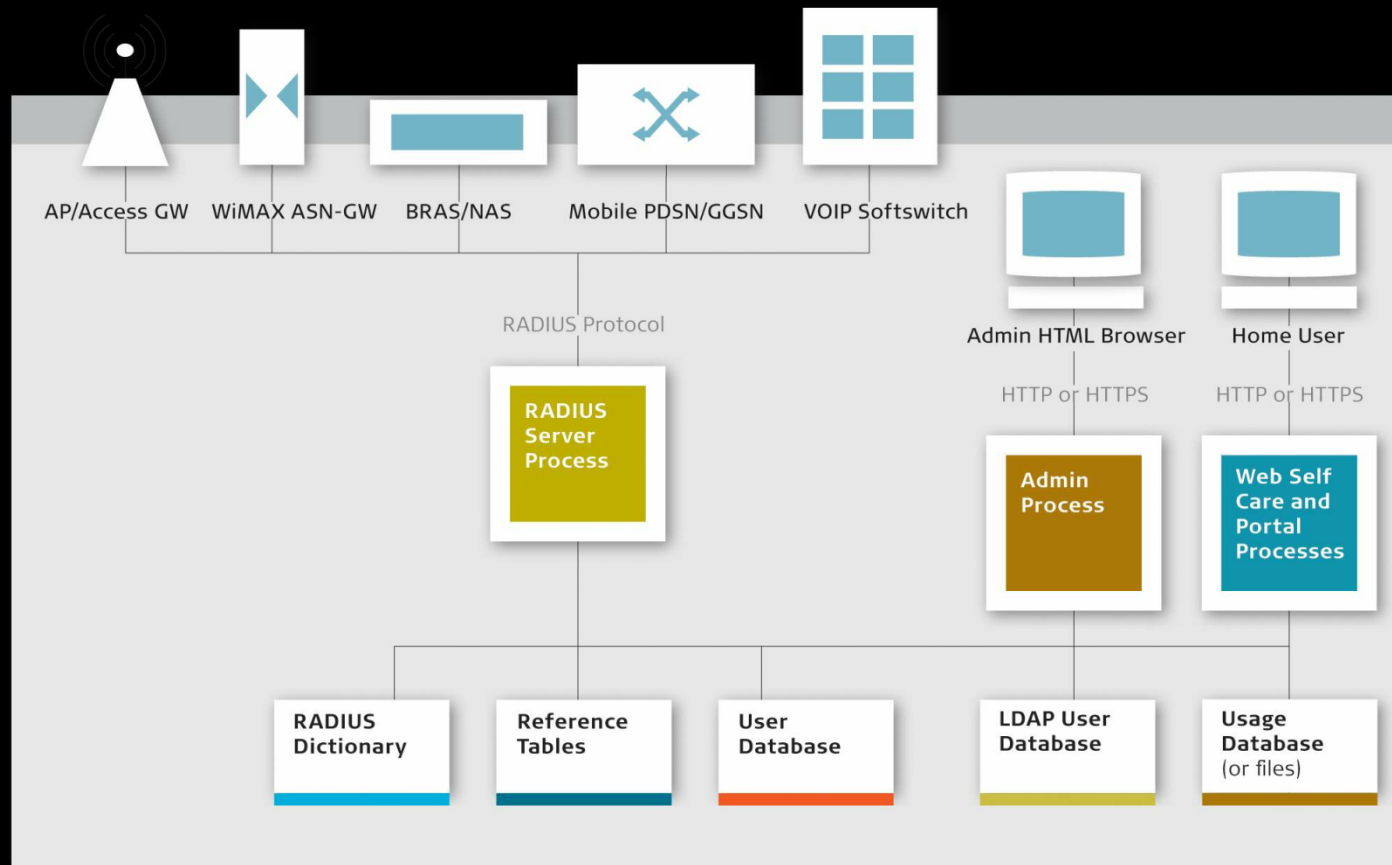
# Aradial Converged Prepaid & Postpaid, Multi IP Services

- Invoicing
  - Periodic automatic invoicing
  - Invoicing sent by email
  - XSL layout – branding
  - Undo billing
  - Discounting
- Automatic payment
  - Error management
- Account Receivables (A/R)
  - Manual, fast payment screen
  - Credit card
  - PayPal

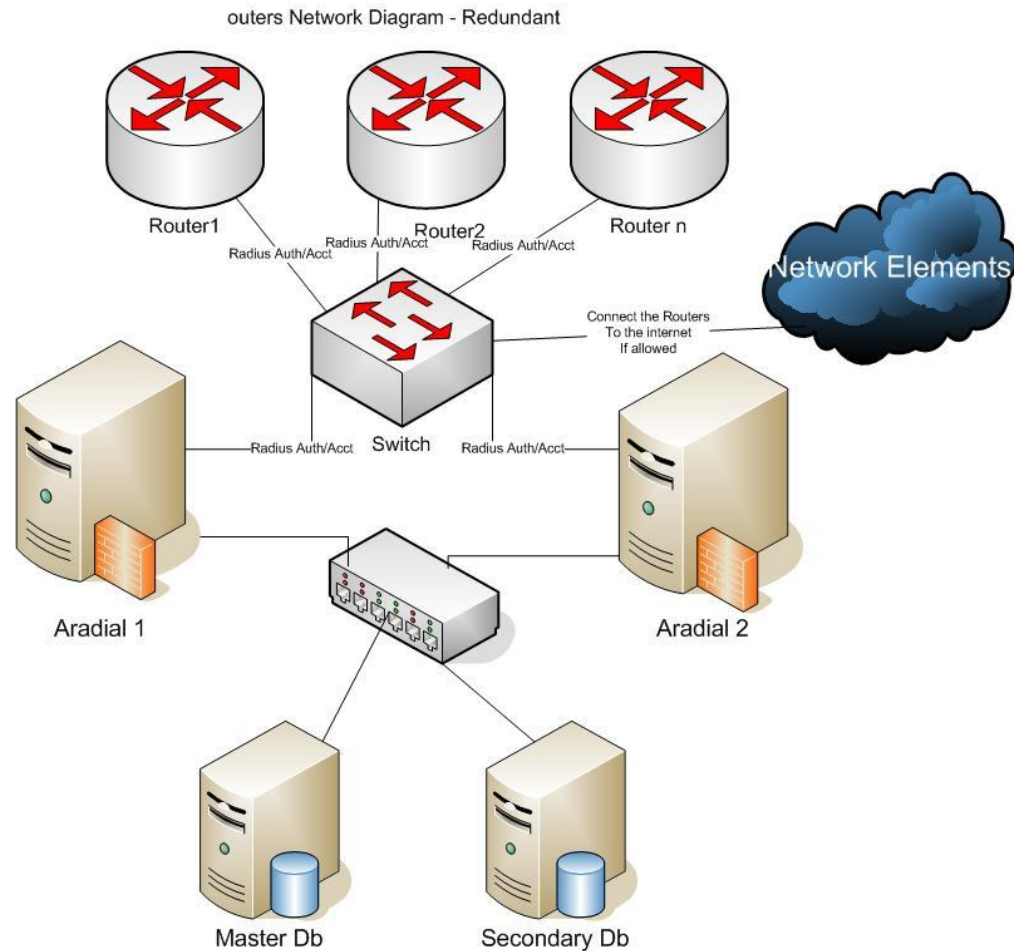
# Aradial Converged Prepaid & Postpaid, Multi IP Services

- Accounting reports
  - Invoicing
  - Payment
  - Operator statement, per-account statement
  - Aging payment
- CDRs processing & error management or rating problems
- Inventory management
  - DID
  - ANI
  - MAC Address
  - IP Address

# Architecture



# Typical High-Availability Deployment







# Wholesale Interconnect Reporting Module

# Wholesale - Interconnect / Termination / Origination - Reporting

- Aradial supports all Traditional Voice and VOIP services.
- Support for most of VOIP Softswitches and SBC
- Prepaid Peering – charging and limiting multi-session calls using balance management (Quota management).
- HTTP API for external systems and customization.
- High call capacity.
- Unlimited rate tables.
- Real time monitoring& alerts.
- Each wholesale customer is defined by special technical prefix or IP or any attribute combination.
- Group of prefixes to Trunk Groups.
- Group of prefixes to Providers.
- Group of prefixes to Sales Person.

# Wholesale - Interconnect / Termination / Origination

- Hourly operational report to detect traffic problems (e.g. low ASR).
- Daily operational report to detect traffic problems (e.g. low ASR).
- Termination/origination failures cause report.
- Usage reports that include the rounding, rounded minutes and cost per destination.
- Accounting financial reports per wholesalers.
- Provider's reports.
- Provider's self care to view its usage and CDR.
- Salesman reports.
- Providers self care module to view its wholesaler's usage and income.
- Searches and breakdowns by: Between days, per destination, per Tech Prefixes, Providers and Salesman.

# Wholesale - Interconnect / Termination / Origination

- Generating various reports
  - Periodic termination reports
  - Periodic origination reports
  - Usage reports
  - Accounting reports
  - Cause code reports
  - Exporting CDRs
  - Salesman reports
  - Provider reports

## *Operational Reports*

- [Termination Report: Per Hour](#)
- [Termination Report: Per Day](#)
- [Origination Report: Per Hour](#)
- [Origination Report: Per Day](#)
- [Origination Usage Report](#)
- [Termination Usage Report](#)
- [Accounting Daily Report](#)
- [Accounting Hourly Report](#)
- [Accounting Daily Report Grouped](#)
- [Accounting Hourly Report Grouped](#)
- [Cause Code Report](#)
- [CDR Export](#)
- [Salesman Providers Usage Report](#)
- [Salesman Providers CDR Export](#)
- [Provider Usage Report](#)
- [Provider CDR Export](#)

# Termination Report Per Day

Home | Jump to Report: Termination Report: Per Day

admin | [My Account](#) | [Logout](#)

## Termination Report: Per Day

Results

dated between (YYYY-MM-DD HH:MM:SS or plain english)  and

Route Code

Provider

Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Results between 2007-01-24 00:00:00.000 and 2007-01-25 00:00:00.000.

DATETIME	ROUTE CODE	LOCATION	MINUTES	MIN	AVG	MAX	COMPLETED	TOTAL CALLS	ALL CALLS	ASR	TRUE ASR
2007-01-24	BTB	Bangladesh Cellular	1515	0.00	2.66	149.00	132	478	550	27.61	24.00
2007-01-24	BTB	Bangladesh,Cellular-Grameen	19071	0.00	1.51	111.00	3003	9850	11831	30.49	25.38
2007-01-24	BTB	Bangladesh,Cellular-Aktel	3605	0.00	1.49	30.00	581	1966	2265	29.55	25.65
2007-01-24		United Arab Emirates	300	0.00	1.38	61.00	83	114	194	72.81	42.78
2007-01-24		Afghanistan	70	0.00	0.39	21.00	18	107	157	16.82	11.46
2007-01-24	CTS_DNG	USA	57	0.00	1.42	21.00	15	36	36	41.67	41.67
2007-01-24	CTS_DNG	Great Britain	12	0.00	6.00	12.00	1	2	2	50.00	50.00
2007-01-24	CTS_DNG	Canada	0	0.00	0.00	0.00	0	1	1	0.00	0.00
2007-01-24	CTS_DNG	Canada	8	0.00	3.50	7.00	2	2	2	100.00	100.00
2007-01-24	CTS_DNG	Canada	12	0.00	6.00	12.00	1	1	2	100.00	50.00
2007-01-24	CTS_DNG	Canada	6	0.00	1.25	2.00	3	4	4	75.00	75.00

# Termination Report Per Hour

Home | Jump to Report: Termination Report: Per Hour

admin | My Account | Logout

## Termination Report: Per Hour

Results

dated between (YYYY-MM-DD HH:MN:SS or plain english)  and

Route Code

Provider

Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Results between 2007-01-23 15:00:00.000 and 2007-01-23 21:00:00.000.

DATE TIME	ROUTE CODE	LOCATION	MINUTES	MIN	AVG	MAX	COMPLETED	TOTAL CALLS	ALL CALLS	ASR	TRUE ASR
2007-01-23 15:00:00	BTB	Bangladesh Cellular	83	0.00	9.22	59.00	2	6	9	33.33	22.22
2007-01-23 15:00:00	BTB	Bangladesh,Cellular-Grameen	649	0.00	1.75	111.00	89	301	355	29.57	25.07
2007-01-23 15:00:00	BTB	Bangladesh,Cellular-Aktel	88	0.00	1.88	30.00	12	45	50	28.67	24.00
2007-01-23 15:00:00		United Arab Emirates	7	0.00	0.83	3.00	5	5	6	100.00	83.33
2007-01-23 15:00:00	CTS_DNG	St. Kitts Cellular	0	0.00	0.00	0.00	0	0	1	0.00	0.00
2007-01-23 16:00:00	BTB	Bangladesh Cellular	201	0.00	3.92	71.00	10	43	50	23.26	20.00

# Usage Reports

Home | Jump to Report: Usage Report

## Usage Report

Results

Route Code

Provider

Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Dated between (YYYY-MM-DD HH:MM:SS or plain english)  and

### Results from: Until:

SALESMAN	CODE	TECH	TRUNK	BREAKOUT	LOCATION	CALL TYPE	COMPLETED	TOTAL CALLS	OVR CALLS	ASR	TRUE ASR	PRCT OVR	TOTAL MINUTES	MIN	AVG
RB	UMR	0181	DT	508	St Pierre	TERM	0	0	1	0.00	0.00	100.00	0	0	0
Daniel H	BTB	1514	Better Value 2	8801	Bangladesh Cellular	ORG	132	478	550	27.61	24.00	13.09	1515	0	3
Daniel H	BTB	1514	Better Value 2	88017	Bangladesh,Cellular-Grameen	ORG	3003	9850	11831	30.49	25.38	16.74	19071	0	2
Daniel H	BTB	1514	Better Value 2	88018	Bangladesh,Cellular-Aktel	ORG	581	1966	2265	29.55	25.65	13.20	3605	0	1
SalesRep		1609		971	United Arab Emirates	TERM	83	114	194	72.81	42.78	41.24	300	0	1
SalesRep		1609		971	United Arab Emirates	ORG	83	114	194	72.81	42.78	41.24	300	0	1
SalesRep		1609		93	Afghanistan	TERM	18	107	157	16.82	11.46	31.85	70	0	0
SalesRep		1609		93	Afghanistan	ORG	18	107	157	16.82	11.46	31.85	70	0	0
Sal1	Better Value 2	6200	Better Value 2	8801	Bangladesh Cellular	TERM	132	478	1043	27.61	12.66	54.17	1514	0	1
Sal1	Better Value 2	6200	Better Value 2	88017	Bangladesh,Cellular-Grameen	TERM	2957	9849	19650	30.02	15.05	49.88	19037	0	1
Sal1	Better Value 2	6200	Better Value 2	88018	Bangladesh,Cellular-Aktel	TERM	575	1966	4252	29.25	13.52	53.76	3599	0	1

# Usage Reports

LOCATION	CALL TYPE	COMPLETED	TOTAL CALLS	OVR CALLS	ASR	TRUE ASR	PRCT OVR	TOTAL MINUTES	MIN	AVG	MAX	ROUNDED MINUTES	RATE	COST
St Pierre	TERM	0	0	1	0.00	0.00	100.00	0	0	0	0	0	0.15190	0.00
Bangladesh Cellular	ORG	132	478	550	27.61	24.00	13.09	1515	0	3	149	1516	0.02150	32.62
Bangladesh,Cellular-Grameen	ORG	3003	9850	11831	30.49	25.38	16.74	19071	0	2	111	19072	0.02280	435.21
Bangladesh,Cellular-Aktel	ORG	581	1966	2265	29.55	25.65	13.20	3605	0	1	30	3606	0.02280	82.28
United Arab Emirates	TERM	83	114	194	72.81	42.78	41.24	300	0	1	61	301	0.15000	60.10
United Arab Emirates	ORG	83	114	194	72.81	42.78	41.24	300	0	1	61	301	0.15000	60.12
Afghanistan	TERM	18	107	157	16.82	11.46	31.85	70	0	0	21	71	0.21950	16.99
Afghanistan	ORG	18	107	157	16.82	11.46	31.85	70	0	0	21	71	0.21950	16.99
Bangladesh Cellular	TERM	132	478	1043	27.61	12.66	54.17	1514	0	1	149	1514	0.02150	32.59
Bangladesh,Cellular-Grameen	TERM	2957	9849	19650	30.02	15.05	49.88	19037	0	1	111	19039	0.02280	434.42
Bangladesh,Cellular-Aktel	TERM	575	1966	4252	29.25	13.52	53.76	3599	0	1	30	3600	0.02280	82.14
All	TERM	0	0	2	0.00	0.00	100.00	0	0	0	0	0	0.00000	0.00
USA	TERM	15	36	172	41.67	8.72	79.07	57	0	0	21	58	0.00850	0.49
USA	ORG	15	36	36	41.67	41.67	0.00	57	0	1	21	58	0.00850	0.49
Great Britain	TERM	1	2	10	50.00	10.00	80.00	12	0	1	12	13	0.00940	0.12
Great Britain	ORG	1	2	2	50.00	50.00	0.00	12	0	6	12	13	0.00940	0.12
Canada	TERM	0	1	3	0.00	0.00	66.67	0	0	0	0	0	0.00970	0.00
Canada	ORG	0	1	1	0.00	0.00	0.00	0	0	0	0	0	0.00970	0.00
Canada	TERM	2	2	2	100.00	100.00	0.00	8	0	4	7	8	0.00970	0.08
Canada	ORG	2	2	2	100.00	100.00	0.00	8	0	4	7	8	0.00970	0.08



# Accounting Reports

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## Accounting Report

Results

Route Code

Provider

Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Dated between (YYYY-MM-DD HH:MN:SS or plain english)  and

### Results from: Until:

CODE	TRUNK GROUP	SALESMAN	PROVIDER	LOCATION	ROUNDED MINUTES	RATE	COST
UMR	DT	RB	Uniotel	St Pierre	0	0.15190	0.00
		SalesRep		United Arab Emirates	301	0.15000	60.10
		SalesRep		Afghanistan	71	0.21950	16.99
Better Value 2	Better Value 2	Sal1		Bangladesh Cellular	1514	0.02150	32.59
Better Value 2	Better Value 2	Sal1		Bangladesh,Cellular-Grameen	19039	0.02280	434.42
Better Value 2	Better Value 2	Sal1		Bangladesh,Cellular-Aktel	3600	0.02280	82.14
CTS_DNG	P1SICTS_GCS	Robert B		All	0	0.00000	0.00
CTS_DNG	P1SICTS_GCS	Robert B		USA	58	0.00850	0.49
CTS_DNG	P1SICTS_GCS	Robert B		Great Britain	13	0.00940	0.12
CTS_DNG	P1SICTS_GCS	Robert B		Canada	0	0.00970	0.00
CTS_DNG	P1SICTS_GCS	Robert B		Canada	8	0.00970	0.08

# CDR Export for Partners to CSV file

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## CDR Export

Results

Route Code

Provider

Salesman

dated between (YYYY-MM-DD HH:MM:SS or plain english)  and

### Results between 2007-01-27 00:01:12.000 and 2007-01-27 00:02:12.000.

4450	2007-01-27 00:01:12.000	64.192.196.10	00C469F2	1	4450614312088462	16	00:01:10.868 EST Sat Jan 27 2007	00:01:11.820 EST Sat Jan 27 2007	Telephony	answer	614	1/1	0	0.0000
407	2007-01-27 00:01:16.000	64.192.196.10	00C4694A	61	254720420085	16	00:00:15.610 EST Sat Jan 27 2007	00:01:16.176 EST Sat Jan 27 2007	VoIP	originate	2547	1/1	61	0.1747
4286	2007-01-27 00:01:18.000	64.192.196.10	00C45678	606	528343401313	16	23:51:11.745 EST Fri Jan 26 2007	00:01:17.408 EST Sat Jan 27 2007	VoIP	originate	52	1/1	606	0.7272
473011	2007-01-27 00:01:19.000	64.192.196.10	00C458FC	540	59393421451	16	23:52:19.511 EST Fri Jan 26 2007	00:01:19.072 EST Sat Jan 27 2007	VoIP	originate	59393	1/1	540	1.2456
500	2007-01-27 00:01:20.000	64.192.196.10	00C394F9	6454	59521586190	16	22:13:45.760 EST Fri Jan 26 2007	00:01:19.844 EST Sat Jan 27 2007	VoIP	originate	595	1/1	6454	7.3468
500	2007-01-27 00:01:27.000	64.192.196.10	00C3BD44	5221	59521509438	16	22:34:26.277 EST Fri Jan 26 2007	00:01:27.236 EST Sat Jan 27 2007	VoIP	originate	595	1/1	5221	5.9432
4450	2007-01-27 00:01:29.000	64.192.196.10	00C4699E	49	445061424254091	16	00:00:40.233 EST Sat Jan 27 2007	00:01:28.932 EST Sat Jan 27 2007	Telephony	answer	614	1/1	49	0.0751
4450	2007-01-27	64.192.196.10	00C4699E	49	445061424254091	16	23:58:47.504 EST	00:01:28.950 EST	Telephony	answer	614	1/1	49	0.0751

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## Salesman Providers Usage Report

Results

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Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Dated between (YYYY-MM-DD HH:MM:SS or plain english)  and

**Results between 2007-01-24 00:00:00.000 and 2007-01-25 00:00:00.000.**

PROVIDER	CODE	TECH	TRUNK	BREAKOUT	LOCATION	CALL TYPE	MINUTES	RATE	COST	ASR	ALOC
Uniotel	0181	UMR	DT	508	St Pierre	TERM	0	0.15190	0.00	0.00	0.00
Uniotel	0181	UMR	DT	7	Russia	TERM	0	0.03020	0.00	0.00	0.00
Totals							0		0.00		

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## Salesman Providers Usage Report

Results

Route Code

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Salesman

Locations (Code or Name, commas for multiple, % wildcard)

Dated between (YYYY-MM-DD HH:MM:SS or plain english)  and

**Results between 2007-01-24 00:00:00.000 and 2007-01-25 00:00:00.000.**

PROVIDER	CODE	TECH	TRUNK	BREAKOUT	LOCATION	CALL TYPE	MINUTES	RATE	COST	ASR	ALOC
Uniotel	0181	UMR	DT	508	St Pierre	TERM	0	0.15190	0.00	0.00	0.00
Uniotel	0181	UMR	DT	7	Russia	TERM	0	0.03020	0.00	0.00	0.00
Totals							0		0.00		

# Providers Self Care - can login and download CDRS

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## *Operational Reports*

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**Thank You.**

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