MediaCore Solution

Routing  Billing  Transcoding  Revenue Assurance Mechanism

10 Reasons to choose the MediaCore

1. Unified Point of Control System
2. Wholesale SMS Support
3. Jurisdictional Routing, LNP/MNP Dipping
4. Automated Call Quality Testing Portal
5. Time-saving Features for Business Optimization
6. Native Protocol & Codec Converter
7. A Revenue Assurance System (the Guardian) for Traffic Monitoring & Analysis
8. Responsive Interface
9. On Line 24/7 Technical Support (STS) & Trainings

'We chose the MediaCore and I have no doubts that we made the right decision'
International Network Communications Allianz

'MediaCore allows us to analyze our business better'
Progressive Telecom LLC

'We have more time to develop our new business opportunities'
Netvoip Chile

'With the MediaCore Softswitch we don’t worry about network stability'
Alkaip Telecom
Proactive routing is provided by various tools:

- Least Cost Routing (LCR), QoS, Profit based routing
- Advanced and Simple modes
- Jurisdictional aka Interstate / Intrastate Routing,
- LNP/MNP Dipping
- Load Balancing
- Automatic blockage of unprofitable calls
- Different types of priorities to whole points or separate destinations

The SMS module allows providers to offer high-quality wholesale SMS services. This feature opens up the opportunity to expand your business with no expenses on additional equipment and software platforms.

The SMS solution is a feature-rich module with numerous advantages:

- Simple and Dial peer SMS routing
- TR/RX and TRX modes
- DLR (delivery report) support
- MCC-MNC codes table
- Convenient reports and diagrams

The SMS module is user-friendly and easy to configure.

Reports

The MediaCore has a wide variety of implemented reports, call charts and various diagrams. They allow one to carry out a full analysis of the whole system. A convenient swap deals option allows the managing and monitoring of traffic exchange deals between providers.
The VoIP billing module consists of a wide range of advanced tools and provides the user with complete calls statistics, connection quality reports, financial reports and other vital information.

It has the following advantages:

* Multicurrency
* Online and aggregated CDRs
* API for integration with third-party ERP, CMS, CRM, OSS/BSS software
* Automatic invoice generation
* VAT accounting
* Payment Calendar – special tool to monitor clients' debt
* Comprehensive financial analysis

Revenue Assurance Mechanism ‘Guardian’

The Revenue assurance mechanism has the following functionality:

* Consistent monitoring and traffic analysis according to main established parameters
* Sending notifications to suppliers and technical support about problematic destinations
* Automatic locking of problematic destinations
* Routing change according to the specified rules
* Automatic FAS detection mechanism.

Guardian performs the functions of a VoIP Trouble Ticket Automatic System (NOC TT)
Transcoding

The Transcoding function expands the solution performance capabilities and provides flexibility when working with all directions and suppliers. The original processor load balancing routine was developed by Speedflow professionals to avoid productivity slowdown while transcoding.

The MediaCore Solution is a Unified Point of Control System

Due to its structure, the MediaCore Solution can be purchased either as a full-featured VoIP software product or as separate modules.

Technical Specification

VoIP interconnection

Protocols:
- SIP v.2.0 (RFC 3261, RFC 4566)
- H.323 v.6 (H.245 v.13, H.225 v.6)
- SMPP v3.4 protocol for SMS
- T.38 Fax Relay Protocol
- Any way conversion

Codecs:
- g729(a,b,ab)
- g723(5.3,6.3)
- g711(u-law,a-law)
- GSM FR
- Any way transcoding

Proxy:
- Full proxy mode (topology hiding)
- No proxy mode (signaling only)

Smart signaling mode

Smart automatic signaling mode – allows the system to accept and send traffic in any protocol and codec, so you will not spend time on adjusting the interconnection.
Authorization:
- By Static Public IP and prefix
- By login and password (dynamic IP)

Routing
- Routing time 0,0002 second
- Flexibility: any – to – any, one – to – one, one – to – any, any – to – one
- Routing groups
- Routing based on: LCR, Priorities, QoS, Profit
- Jurisdictional Routing, LNP/MNP Dipping
- Day/time based routing
- Routing tables visual display with full information
- Load Balancing
- Lines limits for originators and terminators
- Maximum call time limitation
- Automatic routing control

System capability
- Concurrent calls: 30 000 + of active calls
- Calls per second: 1500
- Call rate per second on one server: 200 +
- Busy hour call attempts: 5 400 000

Billing
- Balancing and limits for companies:
  - * Auto closing
  - * Notification system
- Integrated invoicing system:
  - * Customization
  - * Auto generation and sending
- Price list management
- Different financial analysis options
Reports

- Real time CDR’s monitoring (ASR, ACD, Profit)
- Loop Detection Mechanism
- Statistical reports based on:
  - routes
  - clients
  - providers
  - hours (days, weeks, month)
- Automatic statistics monitoring system with trouble ticket auto sending
- Different filtering options
- Export to .xls or .csv formats
- Call and traffic charts

Configuration and administration

- WEB-based interface
- Multi-level permissions for user’s access to the system depending on user’s rights
- Web billing update without call interruption.
- Media servers update with interruption of less than 30 seconds.

Other

- Built-in firewall control option
- Ping and MTR option
- Actions control option
- Live TCP Dump for Troubleshooting

Test the MediaCore and make your choice

You can rent or buy the MediaCore Solution. Speedflow offers FREE TRIAL PERIOD before buying MediaCore Solution. Request a DEMO, get on-line access to the fully functional solution version, test it and make your choice.