Multimedia
service platform

Solution description

Multimedia service platform is a turn-key solution for delivery of IP services to the residential and small to medium enterprise markets. Such services include but are not limited to voice and video over IP. The platform includes provisioning functions for SIP subscribers, DNS zones, Internet domains, voicemail accounts, SIP call control, ENUM translations and accounting of Call Detail Records.

Dedicated interfaces for resellers and subscribers provide an efficient top-down provisioning scheme from Internet domain registration to SIP record creation and accountability of service usage.

Multimedia service platform can be delivered as a stand-alone platform or as a managed service by Managed DNS™. Dedicated interfaces for resellers and subscribers make Managed DNS an ideal VoIP white-label platform for broadband operators or ITSPs.

Platform features

- Based on SIP and ENUM protocols
- Class 4/5 telephony features
- Voicemail and voice to email
- NAT traversal for audio and video
- Compatible with any SIP client
- Zero configuration at customer premises
- Version control with roll-back
- Provisioning via SOAP/XML API
- Accounting of service usage

Platform components

- SIP Express Router - SIP Proxy/Registrar
- ENUM - PSTN to IP address translation
- MediaProxy - Distributed NAT traversal
- CDRTool - Mediation and accounting
- NGNPro - Provisioning engine
- CPE - SIP call processing engine
- Asterisk - Voicemail and conference

Telecom and mobile operators

Multimedia service platform can provide the upgrade path to roll-out Voice over IP services next to your existing Mobile, Prepaid, Carrier Select or Preselect services. An effective and scalable mechanism to get a SIP subscriber in and an invoice out.
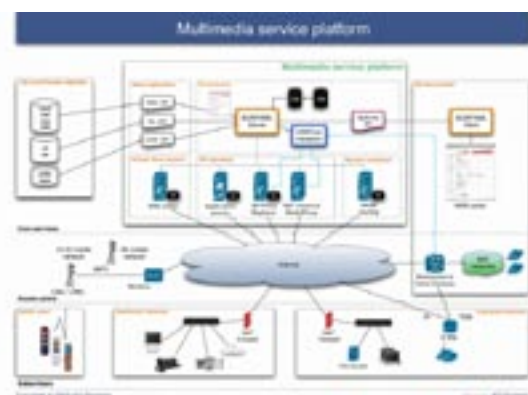
Internet service providers

The fast service creation capability of Multimedia service platform can secure a rapid and successful entrance into the VoIP arena as a service provider.

You can easily integrate Multimedia service platform into your existing hosting or IP access (DSL, cable, fiber, WiFi) services portfolio.

Small to Medium Enterprises

If you are a Small to Medium Enterprise, Managed DNS™ hosted solution is a cost-effective hosted IP PBX solution. Working remotely from multiple locations has never been easier.

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build

The Next Generation Networks

Multimedia
service platform

Technical specifications

Hosting environment

24/7 monitored facility
Dual power and always-on UPS
COMPAQ and SUPERMICRO hardware
High-availability setup
Daily off-site data backup

Domain registration

API connected with Network Solutions
for global Top Level Domains. Real-time WHOIS
interface for .com .net .org .info .name .biz

DNS

Zone parameters: TTL, SOA, Expire Date, Admin
E-mail, Refresh, Expiry, Retry transfer, Negative
TTL, Allow transfer, Allow update, query, Also
notify.
Record types: A, A6, AAAA, NS, CNAME, MX,
PTR, NAPTR, SRV

ENUM

RFC3761 compliant
NAPTR syntax and logic check
DNS and E.164 formats supported
Real-time updates
Compliant with all ETSI requirements for ENUM
interoperability and ENUM best practices

SIP signaling

RFC3261 compliant
Advanced call control module including selective
Accept/Reject, Privacy, Time of the day routing
Privacy support

CDR mediation

CallerId / Subscriber, Destination, Proxy / Gate-
way, Date and time, Call duration, Rate and
price, Release code (SIP, Q931), Application type
(Audio/Video/Text), Network traffic, SIP Status,
SIP Method, SIP Username, SIP domain.
PSTN and NGN rating engine

NAT traversal

TURN solution with load balancing and
redundancy
Support for audio and video, dynamic stream
management, call hold
Accounting of network traffic (codec, application
type and SIP User agents)

Integrated services

E-mail, WEB and SIP forwarding
Voicemail and voice to email
Security using Username/password or temporary
passwords sent via Email or SMS

Account management

Multilevel accounts
Zone delegation to end-users
Record delegation to end-users
Version control with rollback capability
Ticketing system

Provisioning interfaces

Transport over the HTTPS protocol
DNS Zone transfers
Batch/bulk imports from CSV files
SOAP/XML API
Multi-language support