

# NEXGE CommPacket Softswitch

overview

LOWER Operational Cost

Interoperability

HIGHER Revenue Scope

Graceful Scalability

In a World that is constantly racing towards the Next Big thing and **certain uncertainty**, our product assures that our clients are ready to face the future at any terms. At NEXGE, we make sure that whatever technology wave the future might present us, our clients are ready to make the transition and still stay ahead of curve in the **reality of harsh competition**. We make it our business to **empower** Operators and Broadband Service Providers with the necessary building blocks of Tommorrow's networks. We make every effort on our side to **stay ahead** of the curve, to ensure that your **future is safe**.

The CommPacket Softswitch from Nexge Technologies features a truly open design that does not rely on one particular protocol, standard, design or access technology. It is based on standard computing platforms that permit near linear performance enhancements by the simple addition of processors and memory. In addition, the softswitch adapts easily to the constantly changing needs of the service providers. It supports session, media, and service control in the wired, wireless and other access technologies and lends itself to rapid customization for new call control solutions as well as for a variety of user and service provider network services.

when **RELIABILITY** matters most...

## KEY DIFFERENTIAL FACTORS:

- Carrier-grade voice solution platform based on robust scalable hardware and built on open standards
- Fully tested and integrated into major operators to account for more than one billion minutes of conversation
- Provides for a smooth migration path to a complete IP network which will form the Next Generation Networks
- Built on the industry accepted standard protocol SIP with backward support for H.323 gateways and devices

# NEXGE CommPacket Softswitch

## datasheet

### ✿ Network Features

- SIP RFC 3261 support
- Support for Re-INVITE, PRACK, REFER
- H.323 - SIP Interoperability
- Call Setup and Tear Down
- Secure Zone Management and Trusted Call Forwarding
- Admission Control
  - User Authentication
  - Call Authorization
  - Access Control List
- Session Border Controller Features
  - Signaling (Routed/Non Routed) as well as Full Proxy Mode
  - Stateful Session Control on RTP Flow
  - NAT Traversal
  - Masking IP Addresses of Subscriber Terminals/Media Gateways
- T.38 Fax (Group 3 and Group 4) pass through
- Support for G.711, G.729, G.723 & G.726 Codecs
- Auto Inband / Outband DTMF over IP
- Support for multi-vendor Media Gateways, IADs, BLCs, RAS and Customer Premise Devices

### ✿ Provisioning Features

- End-to-end Real time Call tracing capability
- Dynamic Modifications to Parameters during Operations
- Real-time provisioning of Routes and Calling Plans through a web based Interface
  - Unlimited Routing Tables
  - Multiple Numbering Plans – International, National, Local
  - Carrier Identification Code (CIC)
- Number Translation
  - N-digit subscriber numbers
  - Short / Prefixed number dialing for local / long-distance calls
- Optimized Routing Including
  - Least Cost Routing Algorithm
  - Preferred Routing
  - Prefix based routing
  - Route Failover
- Reports & Log Generator
- Administrators / Subscribers can generate Call patterns and usage reports based on:
  - User
  - Group
  - Destination
  - Source
  - Media Gateway/Softswitch (both source and destination)
- Message log files are generated for a specific period of monitoring

### ✿ Services

- Integrated Packet Telephony for Class 4 and Class 5

### Services

- Class 4 Replacement
  - Retail Long Distance (Prepaid Calling Cards)
  - Wholesale Long Distance & Traffic Exchange
- Class 5 Services
  - Web-enabled Local Exchange capability for Access Networks like PSTN, DECT, GSM etc with Traffic offload on IP
  - Web-enabled Class 5 Services over Wireline & Wireless Broadband / Packet Access Networks with IP-IP & IP- TDM (& vice versa) calls
  - Media Gateway / IAD / CPE (PC / IP-Phone / Line Access Gateways) Control
  - Enhanced Services through EVS (Enhanced Value added Services) Platform for various Access Networks:
    - Network Announcements
    - Closed User Group (CUG) Services
    - Direct Inward Dial (DID) Services
    - IP Centrex (Hosted PBX) Services
    - Voice Mail
    - Audio Conferencing
    - Click-to-Talk services

### ✿ OSS Interface

- IPDR Generation and Reporting
- RADIUS Interface for AAA, Billing, OSS/BSS
- Stateful mode with Billing and Rating
  - Prepaid / Postpaid PIN / ANI Authentication
  - Call Snapping on reaching zero balance (prepaid) or Maximum Credit Limit (post paid)
- Number Rewrite over IP (Support for Multiple Aliases)

### ✿ Management & Operations

- Distributed System with a Unified Management
- Web / CLI based interfaces for Lower Configuration and Administration Costs

### ✿ Support for Lawful Intercept (CALEA)

### ✿ Fault Tolerance and Reliability

- Support for Automatic Switchover of any session to Active Backups
- Support for Geographic Redundancy
- Routing Database Replication
- Disk Mirroring for IPDR Storage

### ✿ Hardware Platform & Network Interfaces

- NEBS Level 3 compliant SUN UltraSPARC-Solaris Platform for High BHCA requirement (> 0.2 Million)
- Pentium IV with Solaris / Carrier Grade Linux for low to medium BHCA requirement (< 0.2 Million)
- Gigabit Ethernet Network Interface