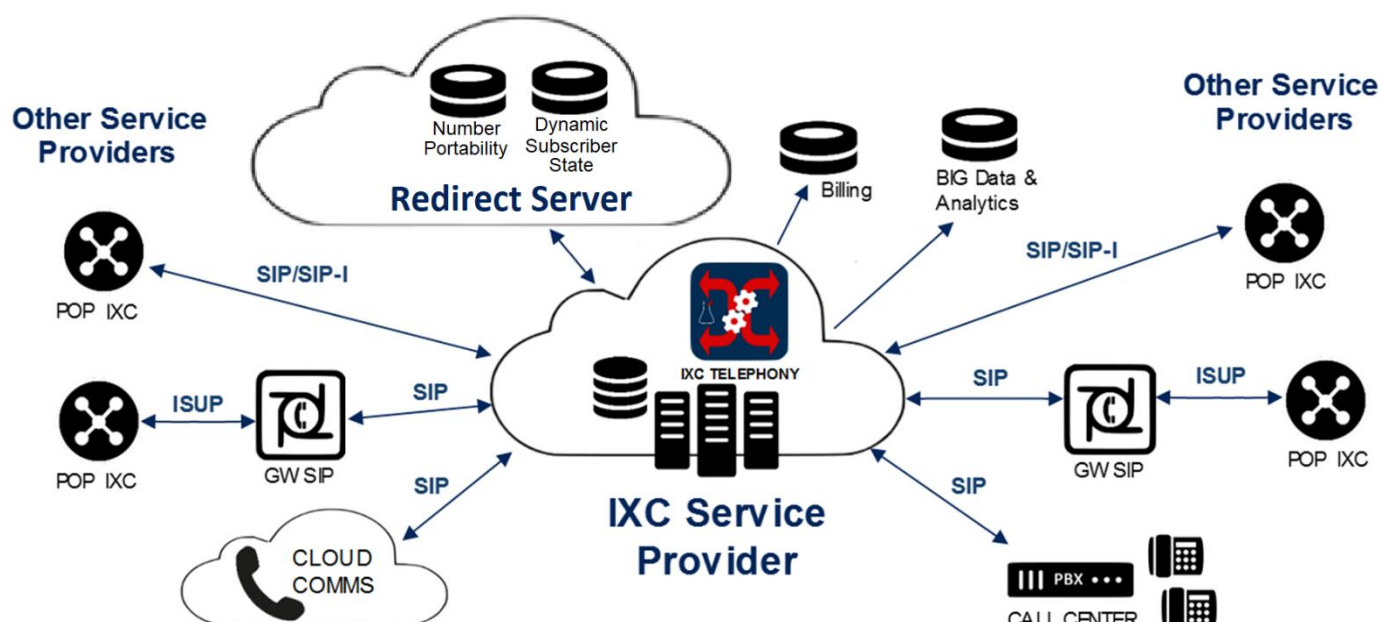# SIPMagic

SIPMagic is a SIP proxy with functionalities for interworking (IXC) and wholesale telephony (wholesale) segments, with high call processing capacity – above 5,000 CAPS.

Data Analysis and Big Data

SIPMagic provides a set of call statistics and CDR that can be exported and processed by big data/analytics applications and tools for analysis of interconnect network performance and usage profiling.

Redundancy

SIPMagic has high-availability modular and redundant configuration options, allowing for scalability and configuration flexibility. Redundancy is done in hot standby mode using local or geographic redundancy.

Functionalities

- ✓ Call routing
- ✓ Route blocking
- ✓ Traffic distribution with or without outgoing route retry
- ✓ Traffic control
- ✓ Outgoing nodes service state monitoring
- ✓ FAS (False Answer Supervision) handling
- ✓ Calling subscriber number modification
- ✓ TAG 100rel removal
- ✓ SIP-I Protocol
- ✓ First SIP 183 Removal
- ✓ Insert "lr" in the Record-Route
- ✓ Send SIP 180 after SIP 100
- ✓ SIP Response Handling (change Status-Code, Reason-Phrase, header Reason)
- ✓ Insertion of "P-Asserted-Identity" header
- ✓ Special service numbers routing, tri-digit services (e.g., emergency, police)
- ✓ Call Blocking when the calling subscriber number is equals to called subscriber number
- ✓ Call-ID manipulation
- ✓ CDR generation
- ✓ Timer C Programming
- ✓ Header "X-Genesys-CallUUID" handling
- ✓ Delay in sending SIP 503 in Traffic Control
- ✓ Changing of Calling Subscriber Number to destination carrier default format per Route (according to declared manipulation rule)
- ✓ Integration with LRS - Labcom Redirect Server
  - o Call Blocking to a number based on the result of previous calls to that number
  - o Call routing to ported numbers
  - o Translation of special service numbers (Tridigit)
  - o Call blocking when the Calling Subscriber Number does not belong to an allowed carrier list (AllowList) by Route
  - o Call blocking when the Called Subscriber Number does not belong to an allowed carrier list (AllowList) by Route
  - o Call blocking when the Calling Subscriber Number does not have a valid prefix
  - o Call Blocking from active telemarketers (identified by the prefix 0303) to specific destinations

The main features of SIPMagic include support for large numbers of calls and high telephone traffic that require advanced control functionalities, management, and traffic distribution. For traffic distribution, it allows several algorithms for load balancing between routes and gateways, avoiding overloading any route or gateway in the network.

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