Soft IP-PBX

- Support up to 1,000 concurrent calls in a single system
- Comprehensive features for unified communications
- High level of security protection(SRTP, TLS & HTTPS)

The Synway's soft IP-PBX is pure SDK software designed to bring enterprise-grade unified communications and security protection to all levels of businesses at an unprecedented price point based on lifetime licensing fees without recurring fees. It enables enterprises to unify multiple communication technologies, such as comprehensive voice, fax, calling, conferencing, video/audio surveillance, data tools, security surveillance, mobility, and facility access management into one commonly managed or accessible VoIP network.

With rich software functionalities, Synway's Soft IP-PBX can support up to 5,000 registered users and offer effortless setup and deployment via the web-browser user interface. Besides auto-discovery of diverse endpoints and auto-provisioning, the SDK IP-PBX series offers a set of comprehensive features, including customizable call-routing, multi-level IVRs, call queues, auto-attendant, call detail records (CDR), multi-site peering, voicemail/fax forwarding to email and more.

Key Features

- Supports up to 5,000 users, 1,000 SIP trunk accounts, up to 1,000 concurrent calls, 500 conference attendees
- Supports up to a limitless-level IVR (Interactive Voice Response)
- Built-in call recording server; recordings accessed via web user interface
- Supports call queue for efficient call volume management
- Built-in Call Detail Records (CDR) for tracking phone usage by line, date, etc.
- Supports voicemail and fax forwarding to email
- Integrated LDAP and XML phonebooks, flexible dial plan
- Zero configuration provisioning of Mainstream SIP endpoints
- Highest level of security protection using SRTP, TLS and HTTPS encryption
- Hi-speed network ports with Integrated NAT router and built-in firewall
- Multi-language auto-attendant to efficiently handle incoming calls

Unique Selling Points

- **Hi-Interoperability with Network**

Support the super NAT network adaptability. In the system deployment, the remote SIP extension registered to IP-PBX need not any NAT traversal setting.

- **Excellent Compatibility**

Without NAT traversal setting, Synway's Soft IP-PBX could be compliant with other mainstream SIP endpoints or components with changeable IP addresses, which effectively reduces complexity of configuration.

- **Intelligent Resource Allocation**

Optimize system resource utilization and system efficiency via stochastic algorithm, effectively minimizing hitting over processor resource and improving reliability in any scenarios.

- **High User-Friendliness**

leverage autoclip intelligent inbound routing mechanism. With call records, this IP-PBX can intelligently match inbound call number with historic called one in autoclip. Moveable extension, call forwarding, DND, etc are available.
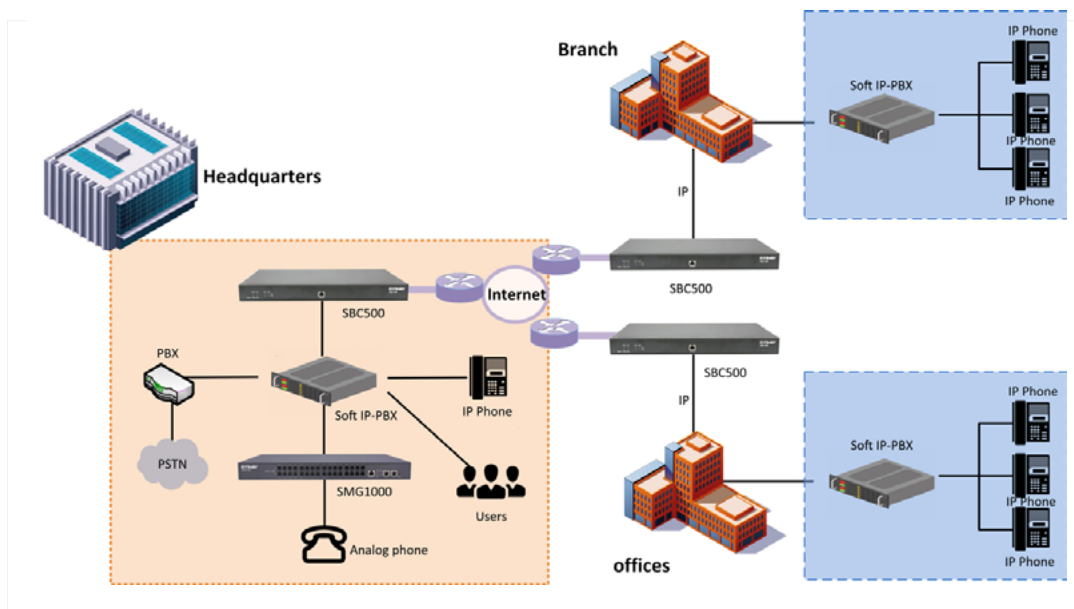
- **Multiple High-Security Modes**

Multiple security mechanisms are available, including password, ACL, data filtering, etc. Besides, outbound routing, DISA, conference, voice mail and other applications support PIN code setting to customize dynamic firewall.

- **Flexible Surveillance**

Adapt flexible multiple-layer monitoring modes to protect privacy at maximum level and ensure high-level of security and reliability in most conditions.

Technical Specification:

- **Voice/Video Capabilities**

Voice-over-Packet Capabilities:	LEC with NLP Packetized Voice Protocol Unit, 32~128ms-tail-length carrier grade Line Echo Cancellation, Dynamic Jitter Buffer
Voice and Fax Codecs:	G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, GSM, AAL2-G.726-32; T.38
Video Codecs:	H.264, H.263, H263+
QoS:	Multiple Layers

- **Signaling & Control**

DTMF Methods:	In Audio, RFC2833, and SIP INFO
Provisioning Protocol & Plug-and-Play:	TFTP/HTTP/HTTPS, auto-discovery & auto-provisioning of various IP endpoints with no Configuration
Network Protocols:	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS, LADP
Disconnect Methods:	Call Progress Tone, Polarity Reversal, Hook Flash Timing, Loop Current Disconnect, Busy Tone
Media Encryption:	SRTP, TLS, HTTPS, TELNET with Fail2ban, Whitelist, Blacklist, alerts and more to protect against attacks

- **Additional Features**

Multi-Language Support:	English/Chinese for Web UI; Customizable IVR/voice prompts for English, Chinese; Customizable language pack to support any other languages
Caller ID:	Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF
Call Center:	Multiple configurable call queues, automatic call distribution (ACD) based on agent skills/availability/ busy level, in-queue announcement
Customizable Auto Attendant:	Unlimited layers of IVR (Interactive Voice Response)
Maximum Call Capacity:	Up to 500 even in SRTP encrypted
Conference Bridges:	Up to 25 simultaneous PSTN or IP participants
Call Features:	Call park, call forward, call transfer, DND, ring/hunt group, paging/intercom etc.
System requirements:	Intel i7 or more Powerful CPU