

ASTERISK(TM) OFFICE PBX

The right telephone system can improve the efficiency and productivity of everyone in your organization, simplify the flow of information and allow you to take advantage of the latest communications technology capabilities.

A range of telephones are available with the Asterisk Office PBX system, familiar office digital desksets, wireless handsets and advanced IP telephones, including an IP-based soft-phone that works on your PC and software to dial from your desktop or Microsoft outlook.

Asterisk(tm) is a complete PBX . It runs on Linux and provides all of the features you would expect from a PBX and more. Asterisk(tm) does voice over IP in three protocols, and can interoperate with almost all standards-based telephony equipment using relatively inexpensive hardware.

Asterisk(tm) provides Voicemail services with Directory, Call Conferencing, Interactive Voice Response, Call Queuing. It has support for three-way calling, caller ID services, ADSI, SIP and H.323 (as both client and gateway).

Asterisk(tm) needs no additional hardware for Voice over IP. For interconnection with digital and analog telephony equipment, Asterisk supports a number of hardware devices, most notably all of the hardware manufactured by Asterisk's(tm) sponsors, Digium. Digium has single and quad span T1 and E1 interfaces for interconnection to PRI lines and channel banks as well as a single port FXO card and a one to four-port modular FXS card.

Asterisk(tm) supports a wide range of TDM protocols for the handling and transmission of voice over traditional telephony interfaces. Asterisk(tm) supports US and European standard signalling types used in standard business phone systems, allowing it to bridge between next generation voice-data integrated networks and existing infrastructure.

Asterisk(tm) not only supports traditional phone equipment, it enhances them with additional capabilities.



* The Cisco phones in the pictures are part of our recommended configuration for Asterisk PBX.

ASTERISK(TM) FEATURES

Asterisk(tm) based telephony solutions offer a rich and flexible feature set. Asterisk(tm) offers both classical PBX functionality and advanced features, and interoperates with traditional standards-based telephony systems and Voice over IP systems. Asterisk(tm) offers the features one would expect of a large proprietary PBX system such as Voicemail, Conference Bridging, Call Queuing, and Call Detail Records.

TELEPHONY SERVICES

Voicemail System

- Password Protected
- Separate Away and Unavailable Messages
- Default or Custom Messages
- Multiple Mail Folders
- Web Interface for Voicemail Checking
- E-mail notification of Voicemail
- Voicemail Forwarding
- Visual Message Waiting Indicator
- Message Waiting Stutter Dialtone

Auto Attendant

Interactive Voice Response Overhead Paging

Flexible Extension Logic

- Multiple Line Extensions
- Multi-Layered Access Control
- Direct Inward System Access

Directory Listing

Conference Bridging

- Unlimited Conference Rooms
- Access Control

Call Queuing

ADSI Menu System

- Support for Advanced Telephony Features
- PBX Driven Visual Menu Systems
- Visual Notification of Voicemail

Call Detail Records

Local Call Agents

Remote Call Agents

Protocol Bridging

- Provides seamless integration of technologies
- Offers a unified set of services to users regardless of connection type
- Allows interoperability of VoIP systems

CALL FEATURES

Music on Hold

Music on Transfer

- Flexible mp3 based system
- Volume Control
- Random Play
- Linear Play

Call Waiting

Caller ID

Caller ID Blocking

Caller ID on Call Waiting

Call Forward on Busy

Call Forward on No Answer

Call Forward Variable

Call Transfer

Call Parking

Call Retrieval

Remote Call Pickup

Do Not Disturb

SCALABILITY

TDMoE

- Allows Direct Connection of Asterisk PBX
- Offers Zero Latency
- Uses Commodity Ethernet Hardware

Voice over IP

- Allows for Integration of Physically Separate Installations
- Uses commonly deployed data connections
- Allows a unified dialplan across multiple offices

VOICE OVER IP INTEROPERABILITY

Asterisk(tm) provides transparent bridging between Voice over IP protocols and traditional telephony equipment. In addition, Asterisk can transfer calls from one system to another via the Inter-Asterisk(tm) eXchange (IAX(tm)) protocol.

Inter-Asterisk(tm) eXchange (IAX(tm))
H.323

Session Initiation Protocol (SIP)
Media Gateway Control Protocol (MGCP)

TRADITIONAL TELEPHONY INTEROPERABILITY

Robbed Bit Signaling Types

- FXS and FXO
- Loopstart
- Groundstart
- Kewlstart

- E&M
- E&M Wink
- Feature Group D

PRI Protocols

- 4ESS

- Lucent 5E
- DMS100
- National ISDN2
- EuroISDN
- BRI (ISDN4Linux)

CODEC SUPPORT

GSM

- G.729 (available through purchase of commercial license(s))
- G.723.1 (pass through)

Linear

- Mu-Law
- A-Law
- ADPCM

G.726

- ILBC
- LPC-10
- MP3 (decode only)

