

# Asterisk Features

## Features

Asterisk-based telephony solutions offer a rich and flexible feature set. Asterisk offers both classical PBX functionality and advanced features, and inter operates with traditional standards-based telephony systems and Voice over IP systems. Asterisk offers the advanced features that are often associated with large, high end (and high cost) proprietary PBXs.

---

## Call features

- ADSI On-Screen Menu System
- Alarm Receiver
- Append Message
- Authentication
- Automated Attendant
- Blacklists
- Blind Transfer
- Call Detail Records
- Call Forward on Busy
- Call Forward on No Answer
- Call Forward Variable
- Call Monitoring
- Call Parking
- Call Queuing
- Call Recording
- Call Retrieval
- Call Routing (DID & ANI)
- Call Snooping
- Call Transfer
- Call Waiting
- Caller ID
- Caller ID Blocking
- Caller ID on Call Waiting
- Calling Cards
- Conference Bridging
- Database Store / Retrieve
- Database Integration
- Dial by Name
- Direct Inward System Access
- Distinctive Ring
- Distributed Universal Number Discovery ([DUNDi™](#))
- Do Not Disturb
- E911

ENUM  
Fax Transmit and Receive (3rd Party OSS Package)  
Flexible Extension Logic  
Interactive Directory Listing  
Interactive Voice Response (IVR)  
Local and Remote Call Agents  
Macros  
Music On Hold  
Music On Transfer:  
- Flexible Mp3-based System  
- Random or Linear Play  
- Volume Control

## **Call features**

Predictive Dialer  
Privacy  
Open Settlement Protocol (OSP)  
Overhead Paging  
Protocol Conversion  
Remote Call Pickup  
Remote Office Support  
Roaming Extensions  
Route by Caller ID  
SMS Messaging  
Spell / Say  
Streaming Media Access  
Supervised Transfer  
Talk Detection  
Text-to-Speech (via Festival)  
Three-way Calling  
Time and Date  
Transcoding  
Trunking  
VoIP Gateways  
Voicemail:  
- Visual Indicator for Message Waiting  
- Stutter Dialtone for Message Waiting  
- Voicemail to email  
- Voicemail Groups  
- Web Voicemail Interface  
Zapateller

## **Computer-Telephony Integration**

AGI (Asterisk Gateway Interface)  
Graphical Call Manager  
Outbound Call Spooling

Predictive Dialer  
TCP/IP Management Interface

## Scalability

TDMoE (Time Division Multiplex over Ethernet)  
Allows direct connection of Asterisk PBX  
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

## Codecs

ADPCM  
G.711 (A-Law &  $\mu$ -Law)  
G.722  
G.723.1 (pass through)  
G.726  
G.729 (through purchase of a [commercial license](#))  
GSM  
iLBC  
Linear  
LPC-10  
Speex

## Protocols

IAX™ (Inter-Asterisk Exchange)  
H.323  
SIP (Session Initiation Protocol)  
MGCP (Media Gateway Control Protocol)  
SCCP (Cisco® Skinny®)

## Traditional Telephony Interoperability

E&M  
E&M Wink  
Feature Group D  
FXS  
FXO  
GR-303  
Loopstart  
Groundstart  
Kewlstart  
MF and DTMF support

Robbed-bit Signaling (RBS) Types  
MFC-R2 (Not supported. However, a [patch is available](#))

## **PRI Protocols**

4ESS  
BRI (ISDN4Linux)  
DMS100  
EuroISDN  
Lucent 5E  
National ISDN2  
NFAS