# GRANDSTREAM
## CONNECTING THE WORLD

# Grandstream Wave
## Softphone App

Grandstream Wave is a FREE softphone application that allows users to make and receive voice calls through their business or residential SIP accounts on any Android™ device (version 4.0+) from anywhere in the world. This application supports integration of up to 6 SIP accounts, 6-way voice conferencing, and allows users to monitor their PBX (such as Grandstream's UCM6100 series IP PBX & UCM6510 IP PBX) while utilizing speed dial with up to 24 virtual BLF keys. With Grandstream Wave, business and residential users always have access to their SIP lines and can easily keep in touch with business or personal contacts without using expensive cellular data plans.

**6 LINES**
Supports 6 SIP accounts

**HD**
Supports G.722 HD audio codec, also supports G.711, G.726-32, iLBC, Opus and GSM

Includes a page that supports up to 24 virtual BLF/speed dial keys

TLS and SRTP security encryption technology to protect calls and accounts

**6 WAY**
6-way audio conferencing for easy conference calls

Voice channel switching between Bluetooth, mobile device, speakerphone and headset jack

Native integration with phonebooks on mobile devices as well as LDAP phonebook

Automated provisioning options such as XML config files

Supports advanced telephony features, including call transfer, call forward, call pick-up, call recording, call-waiting, shared call appearance (SCA), do not disturb, voicemail with  message waiting indication and more

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|---|---|
| **Protocols / Standards** | SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, DNS (A record, SRV, NAPTR), STUN/ICE, SIMPLE, LDAP, TLS, SRTP, IPv6 (pending) |
| **Network** | Supports 2G/3G/4G or Wi-Fi smart connection |
| **Display** | 800x480 resolution or above |
| **Bluetooth** | Yes, supports mobile device's bluetooth |
| **Voice Codecs and Capabilities** | G.711µ/a, G.722 (wide-band), G.726-32, iLBC, Opus, GSM |
| **DTMF** | In audio, RFC2833, SIP INFO |
| **Audio Quality** | Full-duplex speaker, AEC, AGC, Noise Reduction, PLC, Adaptive JIB |
| **Telephony Features** | Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 6-way audio conference, paging, DND, shared-call-appearance (SCA) / bridged-line-appearance (BLA), BLF, downloadable phone book, call waiting, Voicemail with MWI, flexible dial plan, personalized music ringtones, server redundancy & fail-over |
| **IP PBX Integration** | Feature code synchronization, call recoding, conference room management |
| **Mobile Device Integration** | Supports background mode, proximity sensor for in-call touch screen and keys lock, auto rotation, GPS location based call forward |
| **Enterprise Features** | LDAP, IM, Presence |
| **QoS** | Layer 3 (ToS, DiffServ, MPLS) QoS |
| **Multi-language** | English, German, Italian, French, Spanish, Portuguese, Russian, Chinese (Traditional and Simplified), Korean,Japanese, Arabic, Polish, Turkish, and more |
| **Security** | Supports AES encrypted configuration file, SIP over TLS, SRTP (128-bit and 256-bit), HTTPS |
| **Themes and Skins** | Downloadable and customizable (pending) |
| **Upgrade and Provisioning** | Available from Google Play Store (and soon Apple App Store) Supports provisioning through QR code scan (using UCM-series of IP PBXs) Mass provisioning using AES encrypted XML configuration file |