



## Instant messaging solutions

SparkleIM

- Text, short voice, image, short video, text transfer
- Real Time Voice, Real Time Video
- Groups, discussion groups, meetings
- Compatible with XMPP protocol and SIP Message protocol
- Support message push

## Instant messaging solutions

Communication within an enterprise or organization and among related personnel is increasingly dependent on the communication network and the Internet. E-mail, file transfer, instant messaging and voice calls are the main ways of communication. Currently, the communication methods are mainly based on the traditional mobile communication network, WeChat (/Facebook), QQ (/line/WhatsApp), etc, these ways of communication bring us unparalleled convenience, but also make our communication more chaotic and uncontrollable. The work information and private information are mixed, and there are often information wrong turn, missed, and delayed, secret leaks and other issues. Therefore, it is necessary to build a convenient and safe instant messaging communication platform to achieve communication and communication between internal and related personnel.



### 1. Rich messaging capabilities

Messaging features include text chat between accounts, support for pictures/short video/short voice sending, and support for message push prompts.

Short message list, support to sort short messages by number, each number corresponds to a, in reverse chronological order. You can view all message records and reply directly.

Message sending: including text, video, voice, expression, and picture (choose from the phone album or take photos directly); Support mixed text, emoticons and pictures; Support message content forwarding.

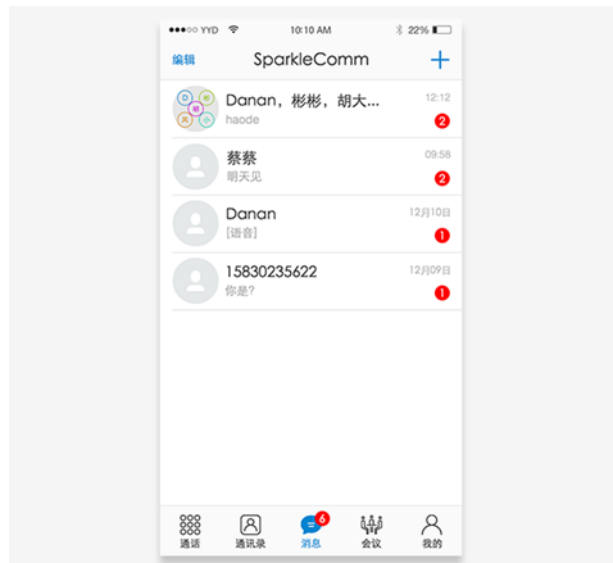
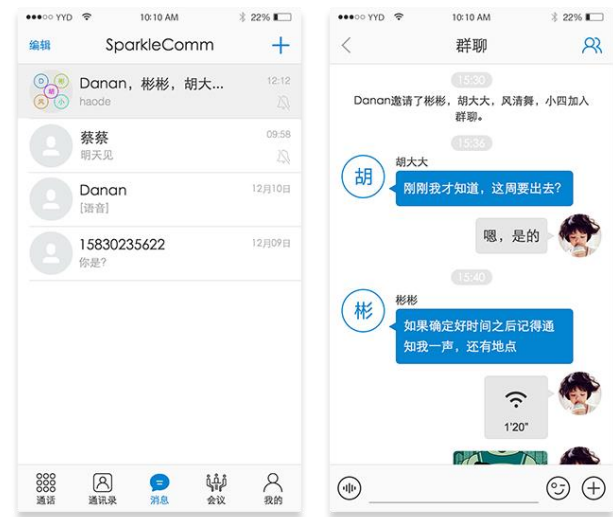
Message management: support the top; Don't disturb. Deletion and marking of chat records.

## 2. Group/discussion group Function

Group creation: manual group creation is supported; Create groups regularly. Each group has a unique URI address. Support setting group nickname and group avatar. Self-sustaining automatic generation group portrait puzzle.

Group messages: each group message is displayed in the message list by its nickname. Group chat displays contact information. Support private chat, @ function, etc.

Group management: support group members to invite, prohibit speech, kick out and other functions.



## 3. Message push

SparklePush message push adopts SparkleComm unified push platform.

Support Android, iOS, PC(including: MacOS, Windows, Linux) client push.

The message push function covers push notifications from friends, groups and platforms when users are offline.

Message push provides API interface to support integration with other systems. For example, announcement push can be realized through integration with OA system. Integration with financial systems to enable payroll delivery notifications and so on.

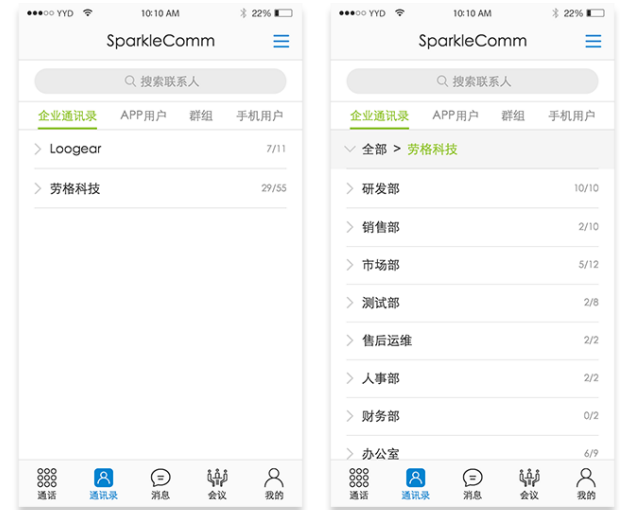
## 4. Online address book

The online address book, also known as the enterprise address book, supports private cloud address book.

Has the backstage web management function, the administrator manages the address book through the web management end.

Support multi-level organizational structure; Support hierarchical authority control; The client displays and queries the address book according to different permissions.

Provide API structure and other system address book integration: such as with OA or HR system integration to achieve automatic synchronization of address book.



## Message encryption transport

The message will be encrypted in the kernel and transmitted by TLS channel. The transmitted data will be transmitted to a replica server, and the business layer server can be centralized saved to achieve the traceability of message records.

## The file transfer

Message file transmission is centrally managed by the server, and the file sending only needs to be uploaded once, and no further transmission is required when it is forwarded again. At the same time, the file supports permission management, such as: prohibit forwarding, forwarding authorization reminder and other functions.

## Real-time voice call

SparkleIM is part of a unified communications platform that integrates SparkleComm's native voice calling capabilities. A voice call can be initiated anywhere in the message. See SparkleComm for details

<h2 style="text-align: center;">Live video calls</h2> <p>SparkleIM is part of a unified communications platform that integrates SparkleComm's native voice calling capabilities. A video call can be initiated anywhere in the message. See SparkleComm for details</p>	<h2 style="text-align: center;">Can be customized</h2> <p>SparkleIM adopts a flexible layered architecture and provides multiple customization solutions: solution 1: UI customization, which can be customized for all clients (Android/IOS/PC) according to user requirements. Option 2: SDK customization. Users can customize free instant messaging system based on the development suite of SparkleComm and the underlying SDK. Both client and server can be deeply integrated into the system of client freedom.</p>	<h2 style="text-align: center;">SparkleIM advantage</h2> <p>SparkleIM is a telecom-grade product architecture compared to its peers in instant messaging. SparkleIM's research and development team comes from the world's top 500 telecom system manufacturers. At the same time, SparkleIM has a mature case in the communication operators. So the maturity of its product is far better than average manufacturer.</p>
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<h2 style="color: orange;">The system structure</h2> <p>The entire SparkleIM system contains subsystem modules that provide data interface, SparkleComm core services, service API, protocol extension, SIP protocol adaptation, control API, mobile client and management control portal.</p>	
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