KvantPhone

User manual

For iOS users

Version 1.0

KvantPhone

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1. System requirements

Minimum requirements:

The following requirements must be met for the application to work:

Operating system	Minimum supported version
iOS	Version 13.0 or later

- Wifi or Mobile internet connection
- 200 MB free storage space

2. First steps

2.1 Download and install the app

There are two ways to download the app:

- It is freely available for download from the App Store, which you can find by typing "**KvantPhone**" in the search box.
- When an account is created by the administrator, the user receives an email notification containing a link to the app page within the App Store.

Clicking on the "Download" button will start the download and then the installation process will start automatically.

2.2 Running the application

Once installed, you can run the app by tapping the "Open" button directly from the App Store or by selecting the "shield" icon in your phone's apps.

2.3 Activate a service

Once installed, tapping on the "Activate service" button in the email sent by the administrator will open the application. The user's email address and the activation code required to log in will then be automatically filled in.

In case this process has not been completed within 168 hours, the activation code must be requested again within the application by tapping the "Resubmit" button.

Request an activation code

After verifying the code, the following introductory screens will appear:

- Login screen: the "Login" button is used to start the activation process.
- Login screen: you will be asked to enter the email address associated with your account and tap "Next".
- Activation screen: you can complete the activation step by tapping on the link in the email sent by the system or by manually entering the required one-time code in the activation code field. If the code has been filled in manually, the user must tap "Next" to continue.
- Welcome screen: the user can tap on the "Next" button to open the "Set Lock Code" screen.
- Set lock code screen: tap "Next" to set your lock code.
- Enter and confirm lock code screen: the user must enter and confirm a sufficiently complex 6-digit lock code to continue the activation process.
- Use biometrics screen: in case your phone has biometric identification, the application will ask for permission to use it to facilitate access.
- Enable notifications screen: the application asks for permission to display notifications. The notifications screen asks if you want the application to display notifications.

- Microphone enable screen: the application asks for permission to use the microphone. The application asks for permission to use the microphone.
- Backup and Restore Backup screen: see **3. point**
- Thank you screen: tapping the "Start" button will allow the user to start using the application.
- User terms and conditions acceptance screen: see Error! Reference source not found. **Point**

2.4 Reactivate account

If the user has logged out or re-installed the app, or is using it on a new device, the service will need to be reactivated.

Once the application is running, you will be asked to enter the user's email address and tap "Next" to proceed to the next screen.

The system will then send you an email containing the activation code.

There are two ways to add the activation code when opening the email:

- Tapping on the "Reactivate account" button will automatically scan the activation code in the letter
- Manually entering the activation code in the letter into the application

After verifying the code, the following introductory screens will appear:

- Welcome screen: the user can tap on the "Next" button to open the "Set Lock Code" screen.
- Lock code setting screen: tap "Next" to set your lock code.
- Enter and confirm lock code screen: the user must enter and confirm a sufficiently complex 6-digit lock code to continue the activation process.
- Use biometrics screen: if your phone has biometric identification, the application will ask for permission to use it to facilitate access.
- Enable notifications screen: the application asks for permission to display notifications. The notifications screen asks if you want the application to display notifications.
- Microphone enable screen: the application asks for permission to use the microphone. The application asks for permission to use the microphone.
- Backup and Restore Backup screen: see **3. point**
- Thank you screen: tapping the "Start" button will allow the user to start using the application.
- User terms and conditions acceptance screen: see Error! Reference source not found. **Point**

3. Backup user data

The backup feature allows you to keep and restore your encrypted local data, such as messages and call history, in case of a reactivation.

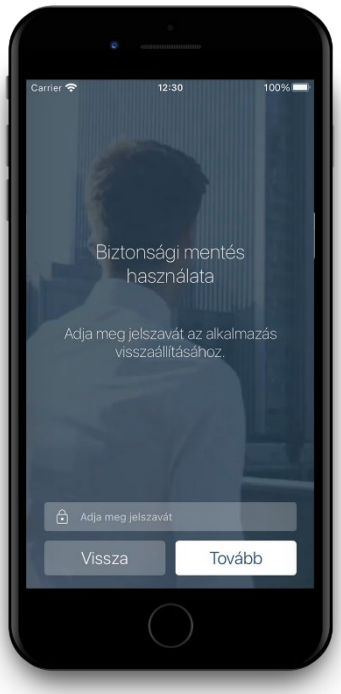
3.1 Backup and restore, activated without history

If the user is performing a new installation and has not yet set up a backup, a new screen will appear as the last step in the activation process, where the user has the option to encrypt their data and save it to the server. To do this, the user must select "Yes" on the screen. This will display the password input field.

You can only proceed from the screen if you have entered a strong password. Otherwise, the "Next" button remains inactive. By stepping back, users have the option to change their mind and turn off the backup feature.

3.2 Backup and restore with history already activated

If the user is performing a new installation and has already enabled backup as the last step in the activation process, a new screen will appear indicating when the last backup was made and the user will be asked to decide whether they want to restore it. If the user chooses to restore, after entering the password previously entered for the backup, the data will be downloaded and restored.



If you do not wish to restore the backup offered, your data will be deleted from the server.

You can only proceed from the screen if you have entered a strong password. Otherwise, the "Next" button remains inactive. By stepping back, users have the option to change their mind and turn off the backup feature.

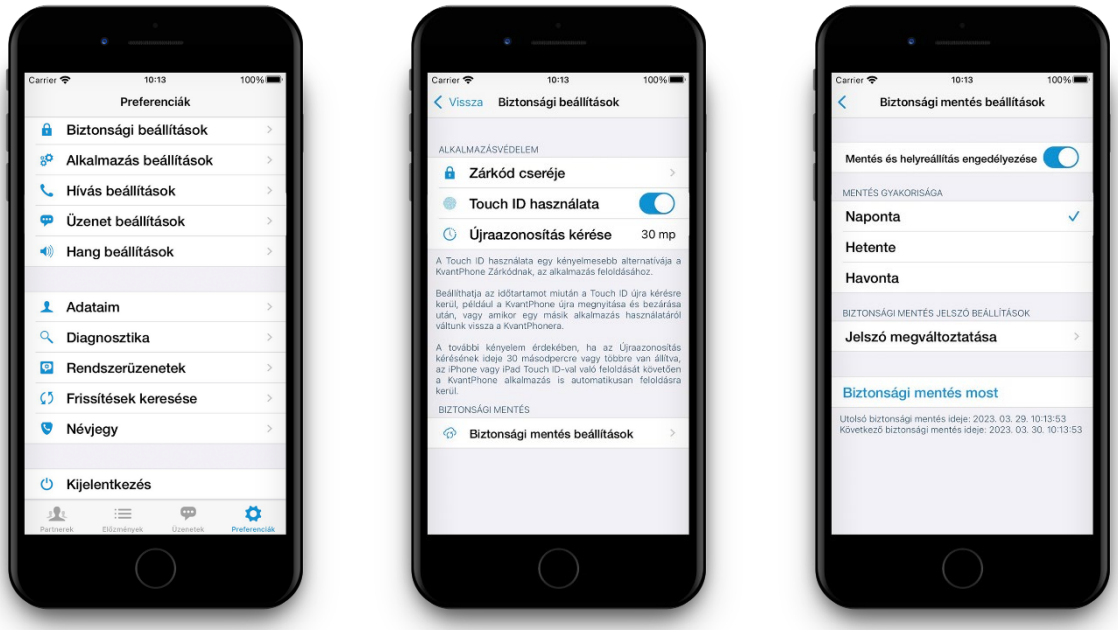
3.3 Application in case of an update

If an already activated user upgrades the KvantPhone application to a version where the backup feature is available and has not previously set up the feature, a new menu item "Backup Settings" will appear under the "Preferences" menu, "Backup Settings".

By opening the menu, users have the option to enable the backup function. If enabled, they must enter a strong enough password to use for backup. Once the backup is successfully enabled, the client will upload the local data to the server in encrypted form.

3.4 Access backup from the settings menu

The user has the option to turn the backup function on or off during use.



In the "Preferences" menu, under "Security Settings", a new menu item "Backup Settings" appears. By opening this menu item, users will be able to enable the backup feature. If enabled, they must enter a strong enough password to use for backup. After successfully enabling backup, the client will upload local data to the server in encrypted form.

If backup is disabled, after entering the Lock Code, the data on the server will be deleted.

The user can choose in the settings whether and when data should be automatically backed up. The backup can be done on a daily, weekly or monthly basis. The time of the first backup is always the time when the backup function is activated. Periodic backups are performed after the selected time interval from the time of the last backup.

The user can use the "Save now" button at any time, in which case the data will be saved regardless of the periodic backup and, if successful, the schedule will be active from that point on.

3.5 Notification of the need for a backup

The user may not bring the application to the foreground when the scheduled backup should be performed by the system. If the time elapsed since the last backup is greater than the backup frequency value, the server will send a notification to the user to bring the application to the foreground and identify itself in order to successfully perform the backup.

3.6 Turn backup on and off

You have the option to turn off or on the backup feature by going to the "Backup Settings" menu in the "Settings" menu of the application, under "Security Settings". To turn it on, they must enter a strong enough password to use for backup. When the backup is enabled, all data on the client will be backed up. The first backup always takes place when the backup is switched on, at which point the client uploads the local data to the server in encrypted form.

If backup is disabled, after entering the Lock Code, the data on the server will be deleted.

4. Interface

After a successful login process, the application interface will open.

The interface is divided into four main functional units:

- Partner list
- History (Call history)
- Messages from
- Preferences

4.1 Partner list

The leftmost tab is the "Partners" tab, which is also the central screen of the application.

Through the Partner List:

- Get information on the current availability status of your partners
- You can initiate calls and messages with your partners – by tapping on the partner's name and selecting "Call" or "Message" from the screen that opens
- View the partner's details – by tapping on the partner's name
- Search and filter your partners – using the search box above the partner list
- You can filter contacts that appear in your partner list to "Favourites"

4.1.1 Partner list indexing by ABC

The alphabetical indexing of the names displayed on the Partners screen is automatically activated when the number of partners exceeds 20.

Partners screen with alphabetical indexing:

Drag your finger along the right edge of the screen to navigate the index.

4.1.2 Contact status of partners

The current contact status of the partners is displayed next to their names on the left.

Possible contact statuses:

- Available (Activated) –Green shield icon
- Not available (Inactive) – Grey shield icon

The status of partners is automatically updated due to certain events (e.g. opening the application), status changes, etc.

4.1.3 Partners details

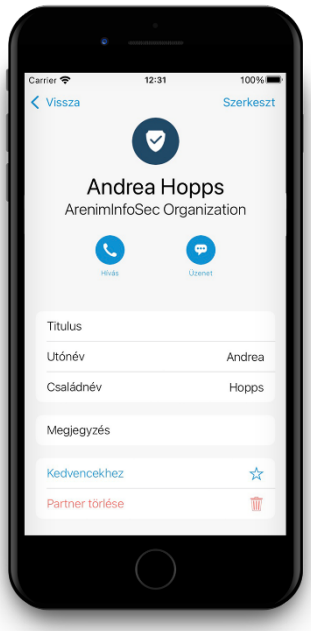
By tapping on the name of a partner, the user can view the details of the selected partner. The partner details screen contains the display name of the partner, which by default is concatenated from the title, last name and first name. The name can be freely changed, but only the name of the partner in the partner list is valid.

The company to which the partner belongs is shown directly below the name of the partner displayed.

The screen allows you to make calls and exchange messages using the buttons located below the body.

Partner details:

- Displayed name of the partner
- Title of the partner
- First name of the partner
- Last name of the partner
- Comment field



4.1.4 Edit and delete partner data

To edit the partner's comment field and change the name of the partner to be displayed, the user must tap on the edit option in the top right corner. After editing the desired partner details, the changes can be finalized by clicking on the "Save" button.

Using the buttons at the bottom of the screen, you can add the partner to your "Favourites" list and delete them after confirming the deletion by clicking on the "Delete partner" button.

4.1.5 Add a new partnership

To help you share the experience of secure communication with more partners, we recommend the following:

Easily invite your friend to your partner list using one of the invitation options in the app.

- On the "Partners" screen in the app, tap the "+" sign in the top right corner.
- Choose the invitation method that suits you best from the list displayed.

4.1.6 Ways to recruit partners

4.1.6.1 "Search for partners"

- Tap the "+" button in the top right corner of the Partners screen to add a new partner.
- Select Find Partner from the pop-up menu.
- In the Find a partner field, start typing the name of the partner you want to add and tap "Search". Then tap the "+" button next to the name.

4.1.6.2 Linking by code

This way you can add any other user with an active account to your affiliate list.

- To access this function, tap the "+" button in the top right corner of the Partner list, then select **"Link with code"** from the pop-up menu.
- The process of inviting a partner is based on a mutual exchange of invitation IDs. By opening the function, the system generates an invitation ID which must be exchanged with the partner.
- By mutually entering (exchanging) the partner IDs, the system automatically links the partners.
- After entering the ID, tap "Invite" to send the invitation.

The identifier is a sequence of 8 to 10 digits. Each generated identifier is unique and unique.

If you want to add more partners using this method, or your ID is not accepted by the partner's client, tap the "update" symbol in the top right corner of the screen to generate a new ID.

4.1.6.3 Search the partner list

Find a partner by name on the partners screen

The user must type the name of the user he/she is looking for in the "Find a Partner" field above the "Partner List".

After typing in the search box, the application will display the name matching the criteria you entered in the results. The matching term is highlighted.

Find a partner by organisation on the partners screen

The user must type in the "Find a Partner" field above the "Partner List" the organisation belonging to the user they are looking for.

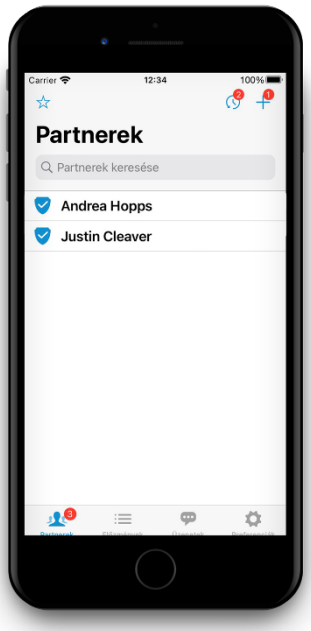
After typing in the search box, the application will display the name of the organisation matching the criteria you entered. The matching term is highlighted.

4.2 Contact history

The "Contact history" screen contains all changes that are made to the "Partners" list. The application will display a "flag" on the application's external icon, as well as on the "Partners" screen and on the "Contact history" icon, to indicate when an unread history is created.

4.2.1 View contact history

To open the "Contact history" screen, tap the "Contact history" button to the left of the "+" button on the "Partners screen".



4.2.2 Go to the contact history screen for notification

In the case of a change on the "Partners" screen, if the application is running in the background, a notification strip will appear with a detailed description of the change. On tapping the notification, the application will navigate the user to the "Contact History" screen. The unread entry will be highlighted.

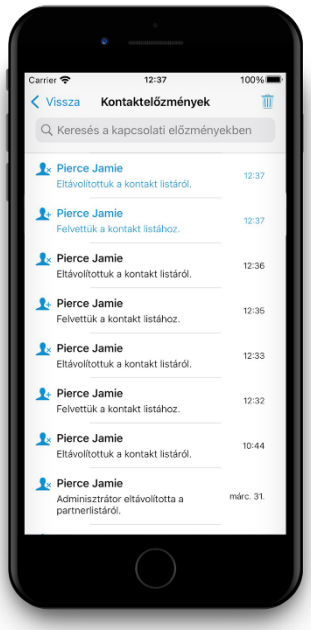
4.2.3 Contact history details

For each change that occurs, an entry is created containing the name of the partner concerned, the initiator of the change and the exact date of the event.

Contact history types

"Contact history" can be of the following types:

- Add a partner by an administrator
- Removal of a partner by an administrator
- Adding a partner by a user
- Removal of a partner by a user
- Changes in the name of the partner



4.2.4 Delete "Contact history"

It is possible to delete all entries in the "Contact history" screen together. To perform the deletion, the user must tap "Delete" in the top right corner of the screen. To

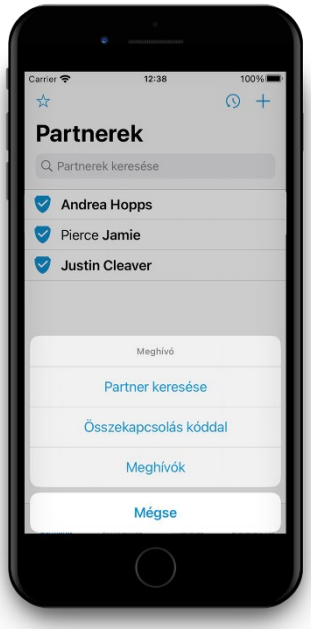
finalise the deletion, the user must approve the deletion and the process can be aborted at any time by selecting the "Cancel" option.

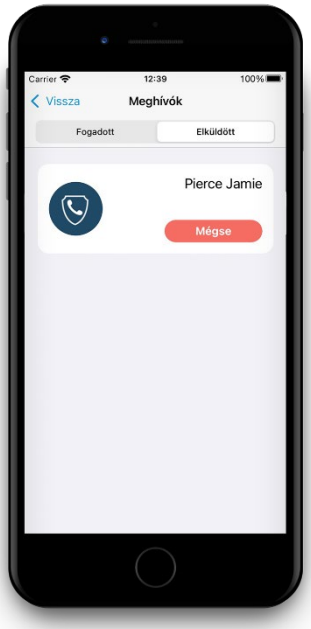
4.2.5 Search in "Contact history"

You can search for a partner's name or event in the "Contact history" screen. By typing in the name of the partner or the description of the event, the "Contact history" list will be narrowed down to items matching the search criteria.

4.3 Invitations

The Invitations screen can be accessed by tapping on the "+" button in the top right corner of the "Partners" screen and selecting "Invitations". The screen contains the invitations made and received by the user. The number of unanswered invitations is shown in brackets next to the menu item.





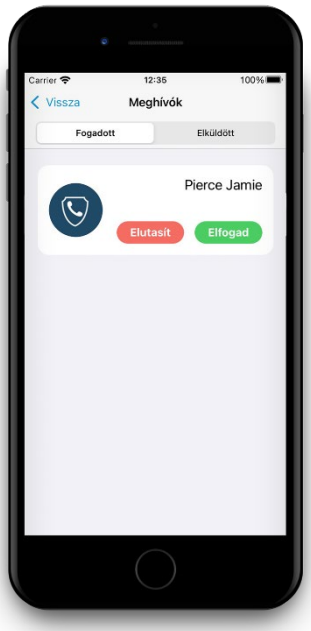
4.3.1 Invitations sent

Invitations initiated are listed under the "Invitations sent" tab. The invitation will include the name of the partner for accurate identification. A sent invitation can be cancelled by tapping the "Cancel" button and confirming.

4.3.2 Invitations received

Invitations sent by partners that have not yet been accepted can be found under the "Accepted" tab. The invitation can be accepted or rejected by the user. Once accepted,

the partner will be added to the "Partners" list and an entry will be created in the "Contact history" with the fact of the link. In case of rejection, after approval the invitation will be deleted and the inviting partner will not be notified of the fact of rejection.



5. Calls from

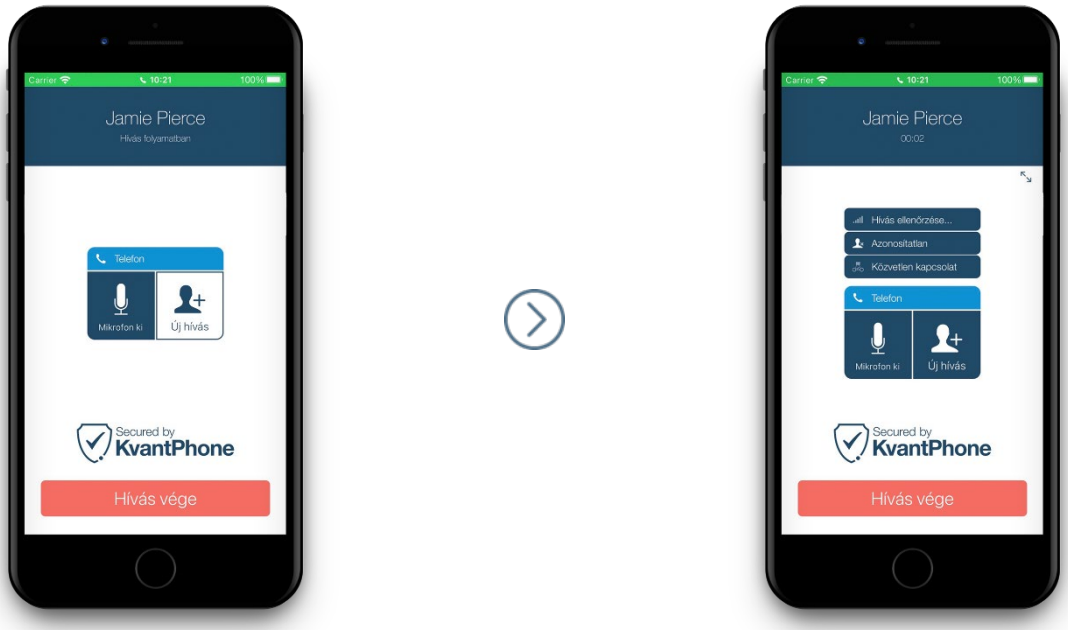
5.1 Making a call

From the contacts displayed in the "Partners" tab, you can call the one whose name is preceded by a "green shield" icon.

After the call has been initiated, a few seconds are required to set up the encrypted call, which is indicated by a tone.

The call can be initiated in several ways:

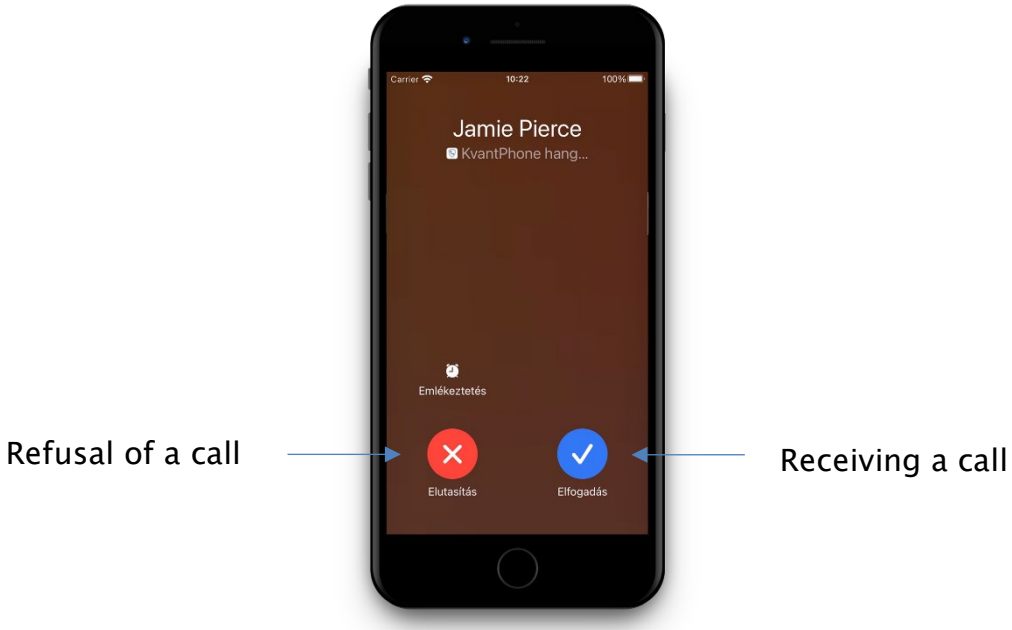
- In the "partner list", tapping on the partner's name will open the partner details screen, then selecting "Call" from the screen that appears
- Tap the name of the partner in the "History" tab to start a call
- Opening the "History" details, selecting "Call"
- On the "History" screen, you can make a call by swiping the call entry to the left and tapping the "phone handset" icon
- In the Messages tab, when you open the conversation, you can start a call by clicking on the "phone receiver" icon next to the partner's name



5.2 Receive call, reject call

When you receive an incoming call, the call screen appears in the foreground, containing two main function buttons.

You can use the "Reject" button to reject an incoming call and the "Accept" button to accept it. Once accepted, the encrypted call will be recovered with a short beep and once recovered, communication between the two parties will be secured.



5.3 Receive and reject calls in the background and on locked devices

When the application is running in the background or the device is locked, incoming calls are displayed on the operating system's native integrated call screen.

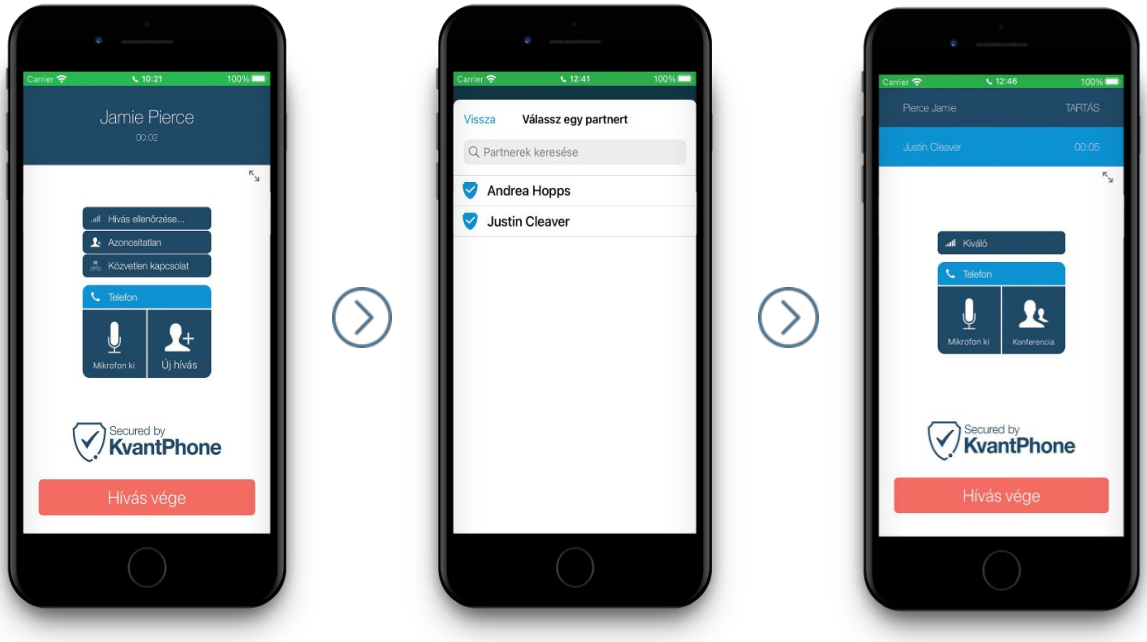
Calls are handled in the integrated call screen in the same way as for calls on the application screen, but with some limitations, as follows:

- Facetime is disabled, as this feature is not available for KvantPhone calls
- Dialer is banned because it is not needed during calls
- You cannot add a partner from your phone's contacts list to the call, as KvantPhone call management is a closed system

For calls received on the integrated screen, the application does not ask for separate identification before receiving calls, but the level of encryption is the same as the call receiving option used within the application.

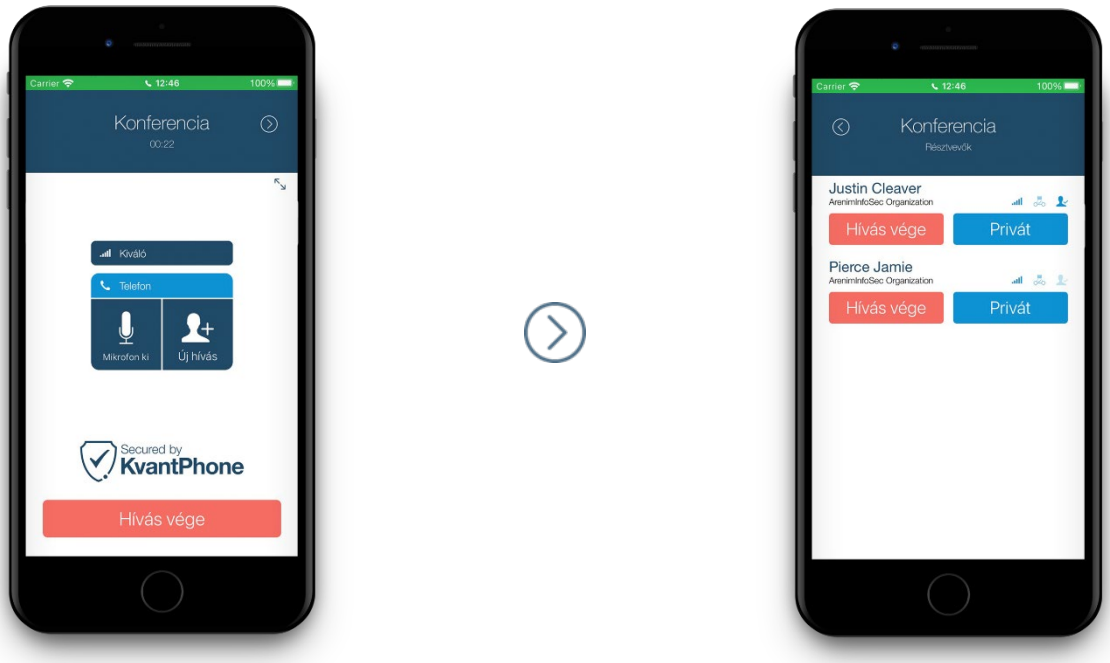
5.4 Conference calls

During a call, it is possible to invite 3 partners to the conversation using the "New call" button on the call screen.



When a partner is invited into the conversation, the partner previously on call is put on hold. It is possible to connect partners and create a conference call by using the "Conference" button.

If you want to return to a private conversation with a partner during the conference call, or if you need to exit a conference call with a partner, you can tap the "arrow" icon to open the list of participants in the conference call. Within this list, you can tap on the "End call" or "Private" button under the name of the selected partner to perform the desired action.



5.5 Receive a call while KvantPhone is active

If the KvantPhone application is running in the background when you receive a call or the screen of your device is locked, you will see the native call screen, similar to the call screen, where you can manage your second incoming and ongoing calls.

5.5.1 Receive calls during an ongoing call

If the KvantPhone application is active when you receive a call, the incoming call screen will be displayed.

During an incoming call, an audible alert is played, "Knock", indicating the call even when the screen is not active.

Finish and reception

Ends the previous call and receives the new call. - The call to your previous call partner is then disconnected and the new incoming call is set up.

Hold and bet

Puts the previous call on hold and receives the new one.-This puts both parties on call, so you can switch freely between the party on hold and the active call or add the new call to a conference call.

Rejection

You can tap "Reject" to reject the call so that your previous call can continue uninterrupted.

5.6 Accessing app features during calls

The user has the option to use most of the features of the application during calls, but to do so, they must:

1. From the application call screen, tap the screen collapse button.

2. The screen collapses and the additional features of the app become available.

3. You can also access the content of your messages during calls by folding the screen. You can send and receive messages, create conversations, chat rooms. View your call history and make another call.

4. Touch the green notification ribbon representing the call to bring the call screen back to full screen if you want to access the functions available on the call screen.

Certain features are restricted during calls for application protection and security reasons, and these features are usually greyed out and do not respond to user interaction.

5.7 History

On the history page, you can view a list of your previous calls, including call outcomes and details of conversations with partners. To the right of the partner's name is the time of the call and below that the outcome of the call.

5.7.1 List of missed calls

To filter, tap "No bet." at the top of the screen to filter.

5.7.2 Missed call indication

The number of missed calls is displayed in the top right corner of the "History" tab icon.

If you tap on the name of the partner, you can dial the selected partner in the same way as the partner list. You can tap the > icon to the right of the partner name to view details of the selected call entry and to initiate a call and message exchange with that partner.

You can delete the history by clicking on the "Delete all" button in the top right corner of the page.

To delete a single entry, drag the name of your contact to the left, then tap the "Delete" button to delete the entry. You can also delete the entry by opening the details of the call entry and selecting the "Delete" icon in the top right-hand corner.

Deletions require user confirmation each time, the process can be freely aborted by selecting "Cancel".

5.7.3 Hide history

The history screen can be hidden for security reasons or according to the user's needs. For details on how to hide the history page, see the **"Preferences"** section.

5.7.4 Details of previous entries

Provides information about call details, including the outcome, time and duration of the call.

5.7.5 Clear history list

- To delete all history, press the "Delete all" button.
- To finalise the deletion, please confirm your intention.

5.7.6 Delete an entry from the history

If you want to delete one entry from your history instead of all, you can do this in two steps:

- In the call log, select the entry you want to delete.
- Swipe the entry to the left, then tap "Delete" from the options that appear to delete the entry.

5.7.7 Possible call outcomes in the history list

- Outgoing call – successful, the called party has answered the call
- Incoming call – successful, the user has received the incoming call
- Abandoned call – the caller has abandoned the call or the call timeout has expired
- Missed call – the called party did not answer the call

5.7.8 Go to call history

5.7.8.1 Missed call from notification

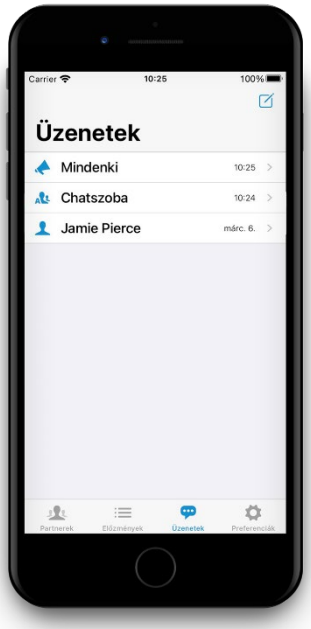
The user has the option to jump to the history screen from the missed call application notification. After tapping the notification and identifying himself, the corresponding screen of the application will be opened, highlighting the missed call entry.

5.7.8.2 Unanswered call from e-mail

The user has the option to jump to the history screen from the missed call email notification. By tapping the button in the notification, after identification, the corresponding screen of the application will be opened, highlighting the missed call entry.

6. Messages from

6.1 Messages list elements



The list of messages shows the names of users, groups, chat rooms with whom or in which we have exchanged messages. Messages are always displayed in chronological order, with the most recent message at the top of the list.

Unread messages are in bold and in a different colour, and in the Messages tab at the bottom of the list, a badge indicates the number of unread messages. A badge on the conversations and chat room icons in the list indicates the number of unread messages in that conversation.

By tapping on the "Delete" button in the top left corner of the screen, you can select the name(s) of the user(s) or group(s) whose messages you want to delete. You can also delete conversations by clicking on the "Delete" button that appears when you swipe left on a conversation.

Tap the pencil icon in the top right corner to write a new message.

6.2 Message exchange markings

Messages are marked with different icons depending on whether they are private group messages or chat room messages.

Private messages are indicated by a "dummy" icon in front of the partner's name.

Our group messages are marked with a "voice mail" icon in front of the group name.

Our chat room messages are marked with a "double dummy" icon in front of the chat room name.

Conversations in "read only" mode are marked by a "grey dummy" icon.

Chat rooms in "read only" mode are marked by a "grey double dummy".

To the right of the names you can see the date the message was received and an arrow icon that you can tap to view the message content.

7. Ways to send a message to

The KvantPhone app supports the following messaging methods:

- Send a message to a partner
- Message groups
- Chat room

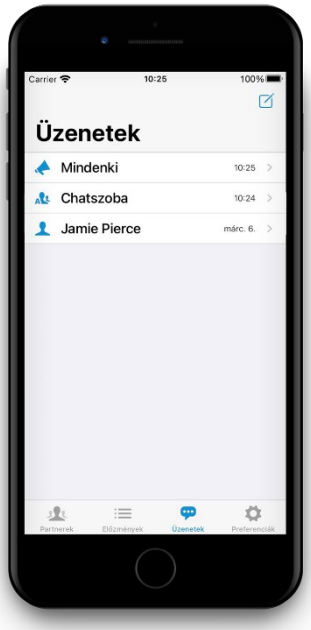
7.1 Send a message to a partner

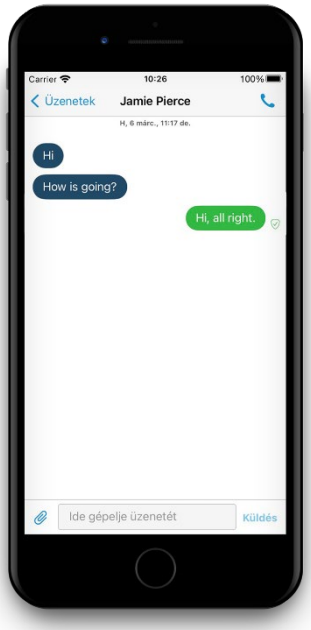
Tap the "Messages" tab to see the history of your messages. If you have previous conversations, their names are listed in chronological order on the "Messages" screen. The most recent message will be at the top of the list.

By tapping on the "Write a message" icon and selecting the appropriate partner, you can send a new message.

Tapping on the name of a partner in the message history opens the conversation you had earlier.

The name of the partner whose message has not yet been read is **highlighted in the** list.

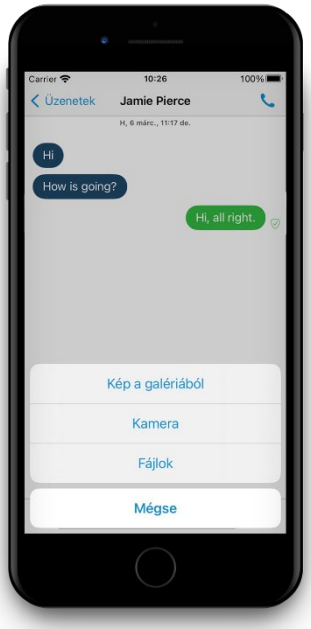




7.1.1 Sending pictures, files by message

In addition to sending text messages and group text messages, you can send encrypted images and files. This can be done by tapping the "attach file" icon next to the message input field. Tap the icon to select one of the following options:

- Picture from the gallery
- Camera
- Files from

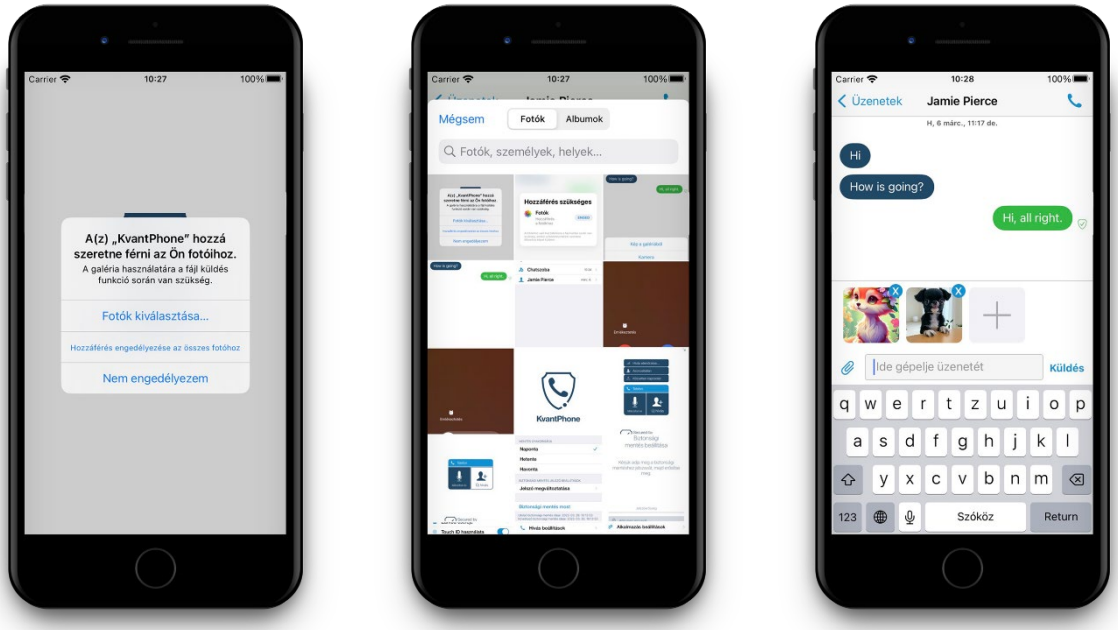


7.1.1.1 Picture from the gallery

If you send a picture selected from a gallery, the app opens the pictures stored in the gallery on your phone, and once selected, displays a preview picture in the message box, where you can type a message next to the picture, and tap the send button to send the picture and text.

You can attach more than one picture, you can view them all in the preview before sending. If you do not wish to send the selected photo, you can tap the "X" button in the top right corner of the image to remove it from the message box.

The maximum size of each file is 10MB. If this is the first time you are sending an image from the gallery, the application will ask for permission to access the gallery. The permission must be approved before you can send the image from the gallery.



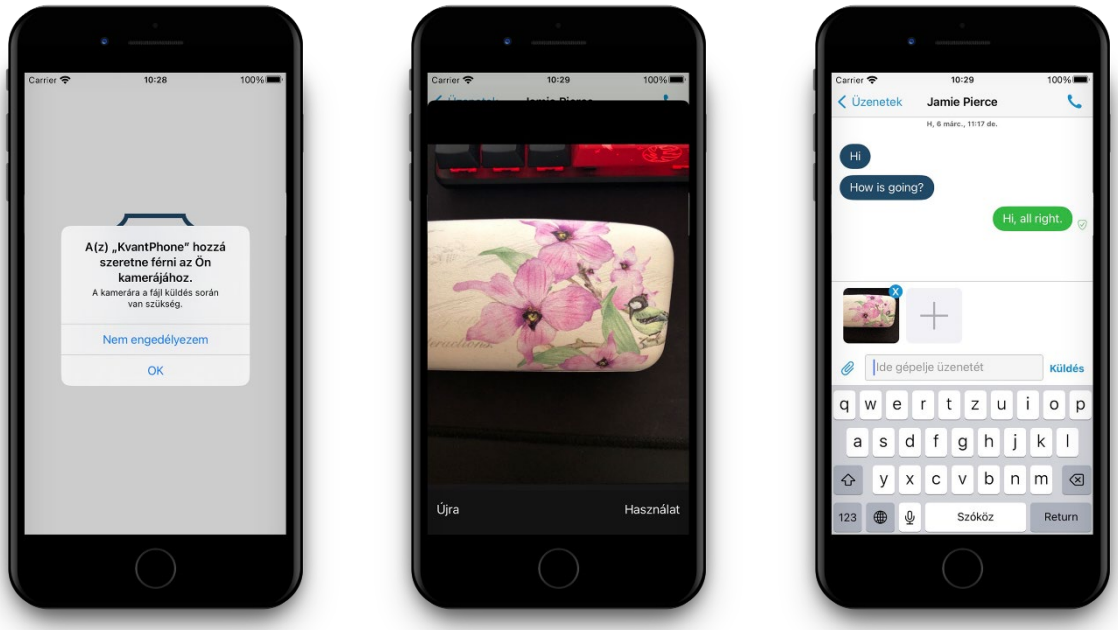
7.1.1.2 Camera

If you select Camera picture, the app opens your phone's camera, allowing you to take a photo instantly.

After taking the photo, tapping the "Use" button in the bottom right corner of the screen will display the preview image in the message box, where you can also type a message next to the image. You can use the "Take again" button to take a new photo if the previous one was not what you expected for some reason.

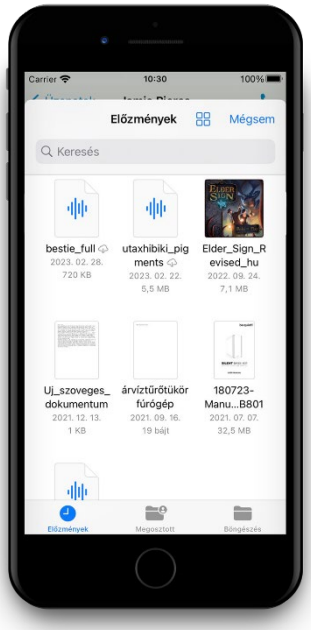
Tap the send button to send the image and text. If you don't want to send the selected photo, you can tap the "X" button in the top right corner of the image to remove it from the message box.

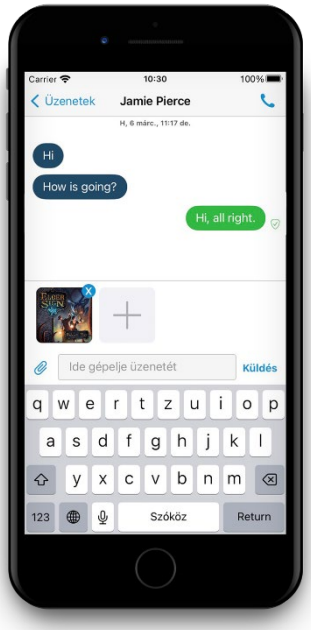
The camera image size must not exceed 10MB. If you have not previously sent a file directly using the camera, the application will ask for permission to use the Camera and Photo Gallery.



7.1.1.3 Files from

When you send a file, the app opens supported file formats stored in your phone. Once selected, the file extension is displayed in the message field, where you can type a message before sending. Tap the send button to send the selected file to the partner. If you do not want to send the file, you can tap the "X" button in the top right corner of the selected file to remove it from the message field.





Images and files must not exceed 10MB in size.

You can view the sent image or file after sending or delete your own copy by long-tapping the message bubble and selecting the desired function.

7.1.2 Retry uploading a file

Depending on the network connection and the status of the application, the file upload may fail. In this case, the user has the option to re-initiate the file upload by tapping the icon next to the message bubble.

7.1.3 Supported file types and restrictions

The application supports several file types depending on the configuration settings, which can be:

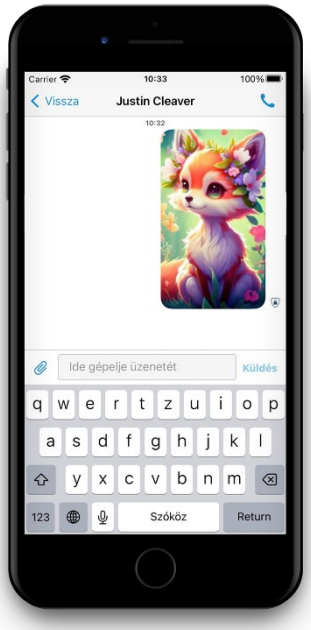
.jpg; .png; .txt; .doc; .docx; .pdf; .mp3; .m4a; .wav; .avi; .mpeg; .mkv; .hevc; .mov; .mp4; .m4v

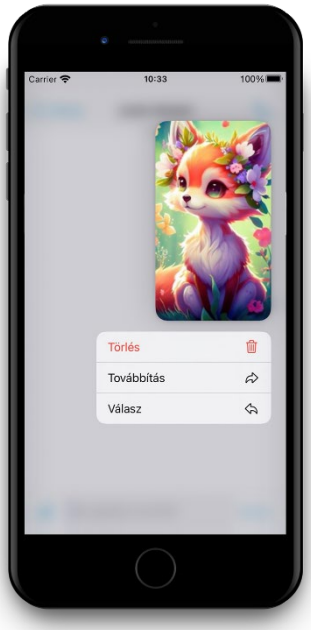
Only the file types defined in the administration interface can be sent and received in the application.

The size of the files you send must not exceed the default 10MB. The file sending size limit is set by a configuration setting, which can be controlled by administrators.

7.1.4 Managing incoming images and files

A preview of the incoming image or file is automatically displayed in the conversation.





If the size of the incoming encrypted file does not exceed the maximum size set by the administrators, the file is automatically downloaded and can be freely opened from the application.

It is possible to delete your own copy after downloading by tapping and holding the message bubble and selecting the desired function.

7.1.5 Retry file download

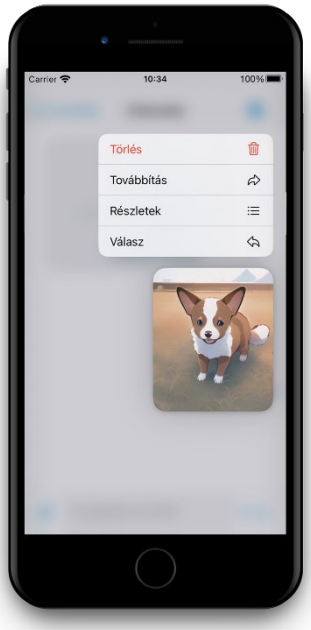
Depending on the network connection and the status of the application, the file download may fail. In this case, the user has the option to re-initiate the file download by tapping on the icon next to the message bubble or by long-tapping on the message bubble and selecting "Download" from the menu.

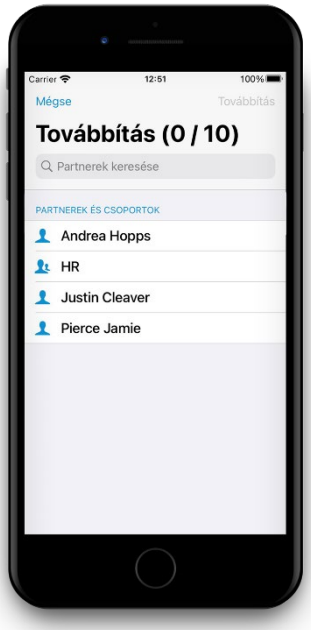
7.1.6 Forwarding a message

Message forwarding is easily achieved by long tapping on the message to be forwarded and selecting it from the floating menu.

By tapping on "Forward", a new screen will appear with all the partners, lists, groups sorted by name. You can select up to 10 different partners from the list to whom you want to forward the selected message. When you select a partner, a tick appears in the box next to their name. If you tap again, the tick disappears and the selection disappears.

After selection, click on the "Continue" button in the top right corner to finish the operation. Forwarding may take more time depending on the number of selected partners or, in the case of groups, the size of the groups. A pop-up notification will indicate the status of the process.





After a message has been transmitted,

1. If there was no conversation with the partner to whom you forwarded the message, a new conversation will be opened and the forwarded message will be visible.

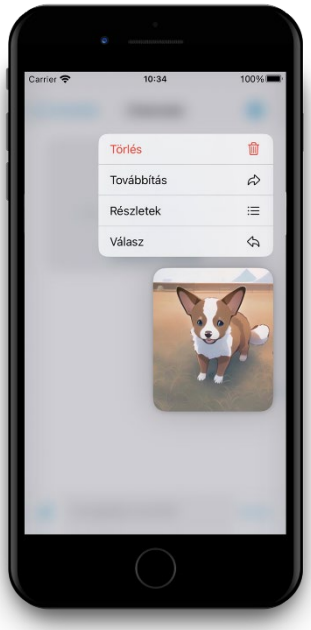
2. If you have already had a conversation with your partner, the forwarded message will appear in the existing conversation.

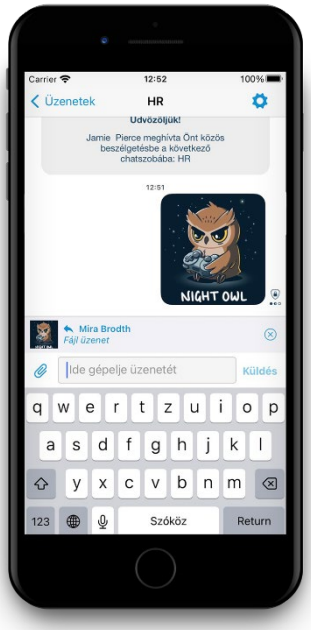
3. You can only send a message in a chat room or to a message list if you have previously created it or received an invitation to a room.

7.1.7 Send a reply to

If you want to reply to a message during messaging, you can do so by long-tapping the message and tapping "Reply" from the floating menu.

If you have selected the "Reply" option, the quoted text or file message will appear in the input field, with the option to write a reply message or attach a file as a reply. Once you have written your reply, you can tap the "Send" button to send your reply to the selected message. Once sent, the quoted text or file will be displayed in a lower resolution, with the reply message you sent below it.





If you do not want to reply to a selected message, you can tap the x button to the right of the message you want to reply to to delete the selected message.

If you reply to a reply message, the last message is always quoted.

7.1.8 Message statuses in conversations

In private conversations, messages and files sent to participants may have different delivery statuses as summarised in the table below:

Message status	The meaning of the message status	Apply at
Send to	The message is being sent	
Sent from	The message has been sent and is temporarily encrypted and stored on the server	
Delivered by	The message was delivered to the partner by the system	
Retrieved from	The receiving party has read the message	
Uploaded from	During file upload	---
Retrieved from	The file is uploaded	
Download from	Download the file below	---
Downloaded from	The receiving party has downloaded the file you sent	
Viewed (for file)	The receiving party has opened the file sent to it	
Error	An error occurred while sending a message or uploading a file	
Invalid session	Invalid message exchange session due to expired encryption key.	
Message resent due to invalid session	Resent messages from the sender are marked with a yellow information triangle.	

7.1.9 Invalid message exchange session

The sent message would be delivered in the old session, which is now invalid, and therefore the sender will be notified to bring the client to the forefront to try to resend the message in the new session. Until this is done, the receiving party will see the message as an empty message bubble in the current client version, under the new functionality introduced, the receiving user will see a red-coloured broken message bubble when viewing the message. The broken bubble indicates that the message was

sent in the previous session and the sender must resend it in the newly created new session.

Once the sender receives notification of the problem and brings the application to the forefront, the message is resent in the new session. On the receiving side, the content of the broken temporary message bubble is updated to include the content of the previously sent message. Messages resent by the sending party in this way are marked with a triangle indicating yellow information.

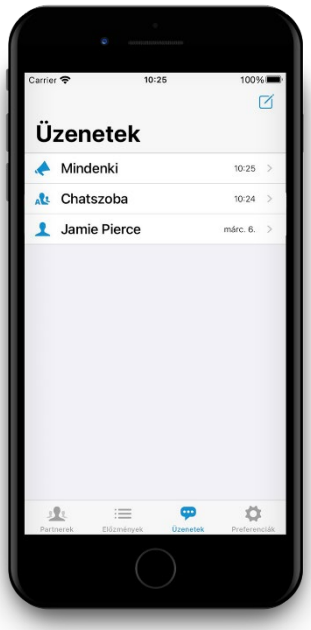
7.1.10 View the timestamp of messages

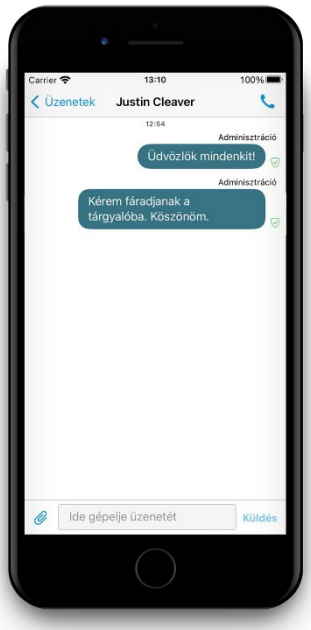
The user has the option to display the exact timestamp of messages in message exchanges by dragging the message bubbles to the right. By releasing the screen, the timestamps are hidden.

7.2 Message groups

7.2.1 Message to group

Tapping the arrow icon to the right of the group name or name will open a list of messages previously sent to the group. Messages sent to the group are listed below each other, separated by a date. The status of the message will be delivered, it will not change depending on the delivery status. The reply, in all cases from the person, will be displayed as a private message.





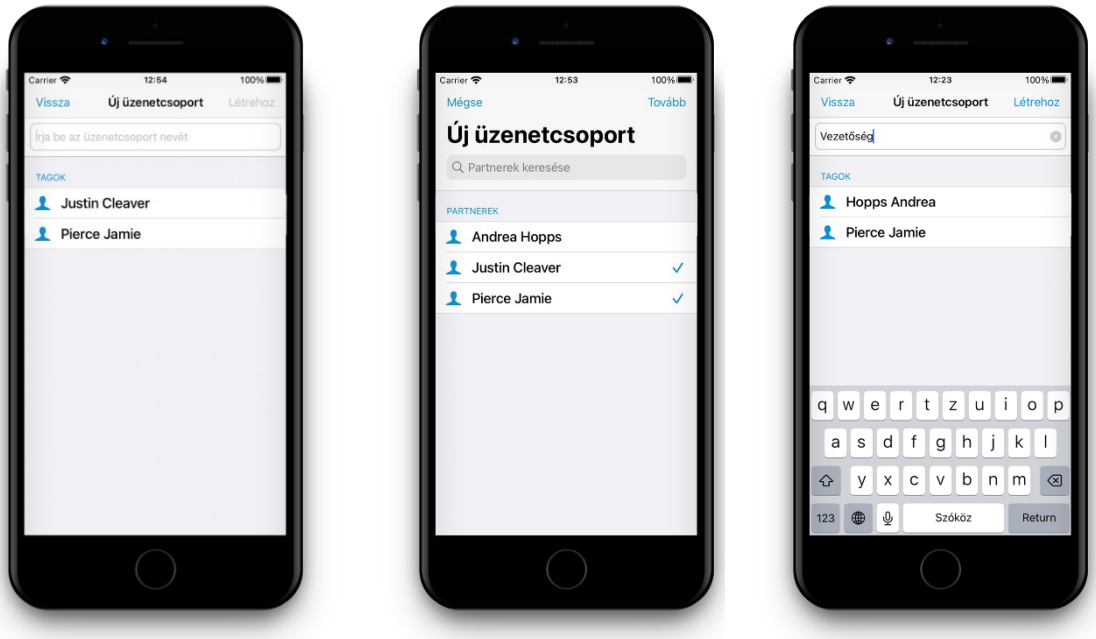
7.2.2 Group file transfer

You can also send pictures and files within a group message. All partners in the group will then receive the file.

7.2.3 Edit message group

Tapping on the pencil icon in the top right corner will open the "Message Group" details, showing the name of the group and its members. The "Edit Members" button in the top right corner allows you to edit the members of the Chat Room. To edit, change the list of members to the desired value by moving the check mark next to the name, and then use the "Save" option in the top right-hand corner when you have finished editing.

7.2.4 Create a message group



By tapping on the "Write a new message" icon in the top right corner of the message list, the application will navigate to the next page where you will have the option to first select whether you want to create a new chat room or a new Message group.

When you select the Message group, the next tab will show you a list of partners, where you can select which partners you want to include in the group. Tapping on the partner's name will display a tick icon to indicate that they have been added to the group. If you tap the partner's name again, they will be removed from the group.

For faster partner recruitment, you can filter the list of partners in the search box above the partner list.

In the search box, type in the name of the partner you want to select and tap on their name to add them to the group.

Once all members are added, you can tap on the "Next" button in the top right corner to see a list of selected members, where you will need to enter the name of the group in the input field above the list of partners.

After entering the name, tap the "Create" button in the top right corner to save the group you want to create.

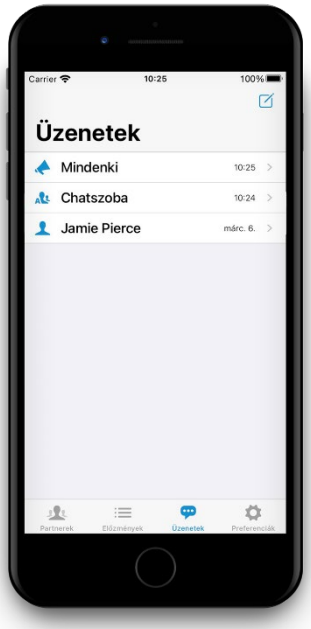
The created Message group will be automatically opened, with the possibility to send messages to group members immediately.

Outgoing messages and their status are displayed in chronological order on the screen. Once sent, a separate text entry opens with each partner in the group. Replies to group messages can be viewed in these entries.

Messages sent to the Message group are prefixed with "[group name]" in the conversations that open for each person, to make them easier to distinguish.

7.3 Chat room

7.3.1 Message to chat room



Tap the arrow icon to the right of the chat name or name to open a list of messages previously sent to the chat room. Use the keyboard and input field at the bottom of the screen to send more messages.

The messages we send will be displayed on the right side of the message window, and the replies will be displayed on the left side of the message window, separated by the name of the respondent. A consecutive message block, will only be named once.

Tapping on the "Settings" icon in the top right corner will open the Chat Room Details, which contains the name of the room and its members. By clicking on the "Edit Members" button in the top right corner, it is possible to edit the members . By tapping on the room name, users can rename the room.

7.3.2 Message statuses in chat rooms

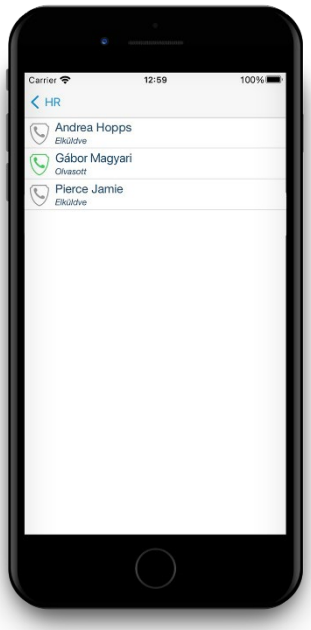
In message groups, messages and files sent to people in a conversation can have different delivery statuses for each person. Therefore, when sending messages and files to multiple participants, the message status feedback is supplemented by a so-called partial delivery status.

The delivery status of messages is as shown in the table below:

Message status	The meaning of the message status	Marking/Colour
Send to	The message is being sent	
Sent from	The message has been sent and is temporarily encrypted and stored on the server	
Partially sent	The message has not yet been sent to all participants "sent", but temporarily encrypted and stored on the server	
Delivered by	The message was delivered to the partner by the system	
Partially delivered	The message has not yet been delivered to all participants	
Retrieved from	The receiving party has read the message	
Partially read	Not all recipients have read the message yet	
Uploaded from	During file upload	---
Retrieved from	The file is uploaded	
Download from	Download the file below	---
Retrieved from	The receiving party has downloaded the file you sent	
Partial download	Not all parties have downloaded the file yet	
Viewed (Read - for file)	The receiving party has opened the file sent to it	
Partially viewed (for file)	Not all the recipients have opened the file sent to them yet	
Error	An error occurred while sending a message or uploading a file	
Invalid session	Invalid message exchange session due to expired encryption key.	

Message resent due to invalid session	Resent messages from the sender are marked with a yellow information triangle.	⚠

For more information on partial delivery statuses by person, long-tap the message bubble and select "Details".

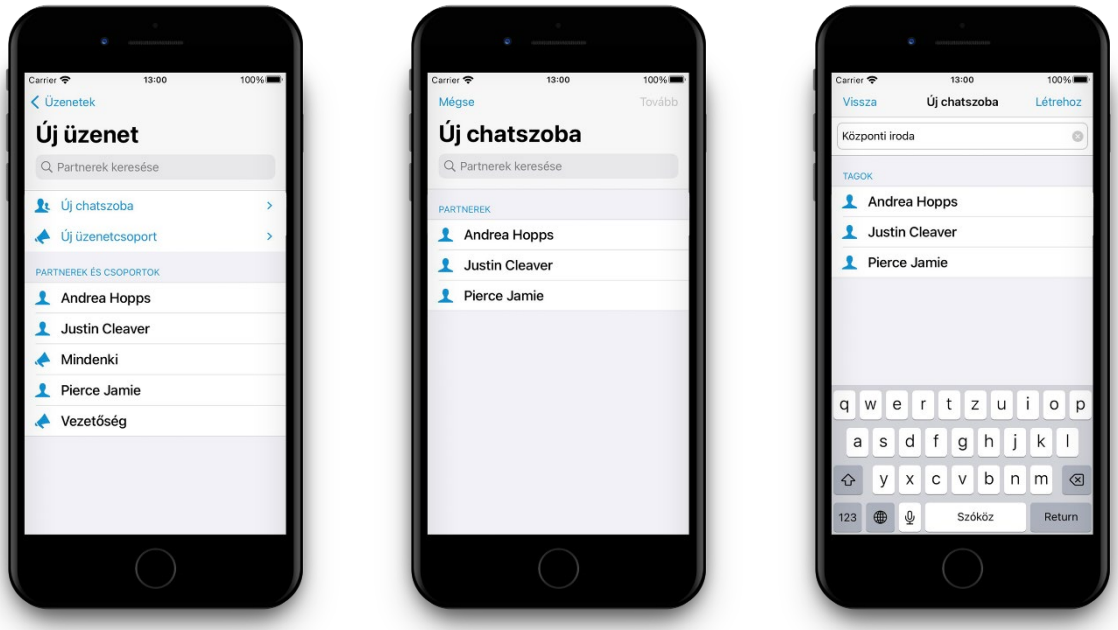


Partial statuses take on a full status and mark, in case all persons have uniformly reached the delivery status of the message.

7.3.3 Chat room operations

7.3.3.1 Create a chat room

Any KvantPhone user can create a chat room. The room creator becomes the owner of the room and has rights that normal members do not have.



By tapping on the "Write a new message" icon in the top right corner of the message list, the application will navigate to the next page where you will first have the option to choose whether you want to create a new chat room or a new Message group.

When you select a new chat room, the next tab will show you a list of partners, where you can choose which partners you want to select for the chat room. The user can only add members to the room from their own contact list. A room can have a minimum of 2 and a maximum of 100 members. If the number of members exceeds this limit, the user will be notified with an error message to modify the member list to comply with the limit.

Tapping on a partner's name will display a tick icon to indicate that they have been added to the chat. If you tap the partner's name again, you will be deleted from the chat room.

For faster partner recruitment, you can filter the list of partners in the search box above the partner list. In the search box, type in the name of the partner you want to select and tap on their name to add them to your chat partner list.

Once you have added all the members, you can tap on the "Next" button in the top right corner to see a list of selected members, where you will need to enter the name of the chat room in the input field above the list of partners.

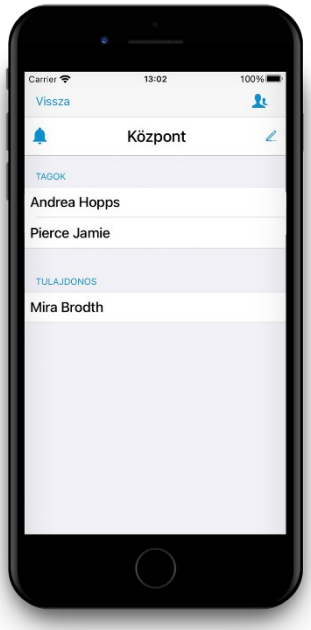
The room name does not need to be unique, as each room is given a unique technical identifier for identification purposes. Once you have entered the room name and checked the list of members, you can tap on the "Create" button in the top right corner to save the chat room you want to create.

Once the room is created, you can start chatting and the chat room name will appear in the chat list.

After successful creation, members will receive a "welcome message". With this message, members will also see the room in the conversation list.

7.3.3.2 Change chat room name

The name of the room can only be changed by the owner. The room name can be changed in the room details.



All members will receive a notification of a chat room name change, which will be displayed as "XY changed room name to Z" in the room. The notification will also appear in the chat room owner's message window. The name change will be "accepted" by all members, there is no possibility to keep the previous room name.

7.3.3.3 Add a tag to a chat room

In the "chat room details" interface, you can edit (add and delete) the members and names of the room: the owner of the room and any member can add another member to the room. Notification of the addition of a new member will be sent to each member and will appear in the room as a "XY added to the chat by Z" message. The new member will receive a "Welcome message" when entering the room to which they have just been invited.

7.3.3.4 Remove a member from the chat room

The chat room owner can remove existing members from the room. In the "chat room details" interface, except for the tick next to the row of members, and then by saving the room again, the desired members can be deleted. All remaining members in the room must be notified of the member's deletion. They will receive a notification that will appear in the room with the text: "XY removed from conversation Z".

The deleted user will have the conversation disappear and receive a notification saying "The room owner has removed you from the room, you can no longer send messages because you are no longer a member of the room."

7.3.3.5 Exit a member from the chat room

Any member may voluntarily leave the room. You can exit by swiping left in the "Messages list" of the chat room or by long-tapping the name of the chat room and then tapping the "Leave" button. By initiating the exit, the member can decide whether or not he/she wants to leave the chat, if he/she confirms his/her intention the room will be irrevocably deleted from his/her "Message List", together with its history. The other members must be informed of the exit. They will be notified: "XY has left the conversation. He will no longer receive messages generated after this post." The member who has left will not receive any messages from the chat room afterwards.

The room owner does not have a "Leave" option, instead there is a "Cancel" option. If the chat room owner deletes the chat room, the room is deleted.

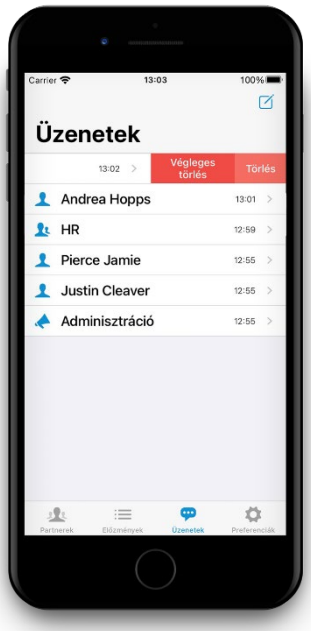
7.3.3.6 Delete a chat room

The chat room creator can terminate the room by deleting the room from their chat list. To do this, the owner must either select "Delete" by left-clicking on the "chat room" name or select "Delete" by long-tapping on the room name. A message will inform the owner that deleting the room will remove the conversation and the remaining members will receive a notification that the room has been deleted.

The notification will include the fact of cancellation. The chat room can only be accessed in the chat list in read-only mode, the room colour in the list changes to dark grey. Previous posts are still readable, but it is no longer possible to write or add members to the room. Left sweep and selecting "Leave" will delete the entire conversation.

7.3.3.7 Delete chat room permanently

The chat room creator can permanently delete the room by selecting the "Delete permanently" option from their chat list. This can be done by either left-clicking on the name of the "chat room" or by long-tapping on the room name and tapping on the "Delete permanently" option. A message will inform the owner that deleting the room will also remove the conversation. Members will be notified of the termination of the room, the notification will include the fact of deletion. They will no longer be able to access the chat room content, the room will go into read-only mode.



The room will appear in the members' messages list in dark grey after the final termination, with a single message indicating the fact of deletion. You can no longer write to the room, read its previous messages or edit its settings. The user can choose to remove the room from the message screen by swiping the room name to the left and then selecting "Delete" from the options.

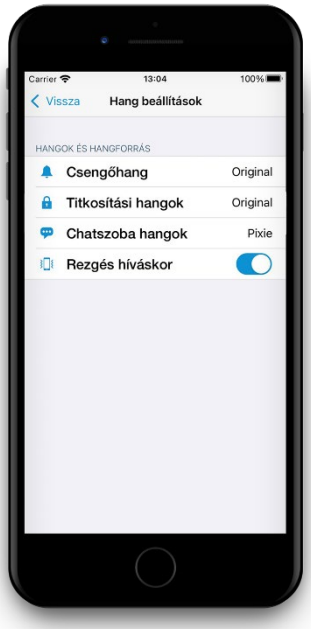
7.3.3.8 Chat Room Closure

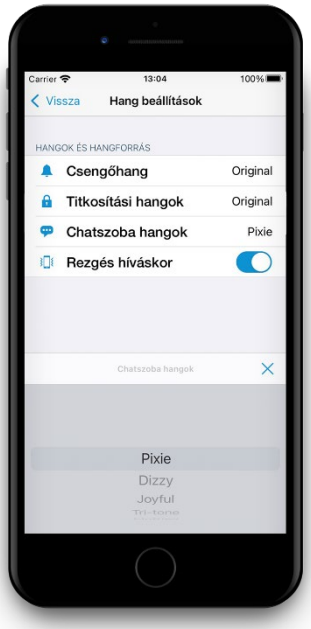
A chat room can be terminated by the owner who created it deleting it. A notification of the termination of the room will then be sent to the other members. "The room owner has deleted the room. From now on you cannot send messages to the room." When the room is deleted, the room becomes read-only for all members, the room in the Messages list turns grey, and the room settings are no longer accessible.

8. Manage notifications in chat room

8.1 Set chat room sound, mute

Users have the possibility to decide in the app which audio alert should be played in the chat room. The user can select the desired melody from a list under "Preferences" > "Sound settings" > "Chat room sounds".

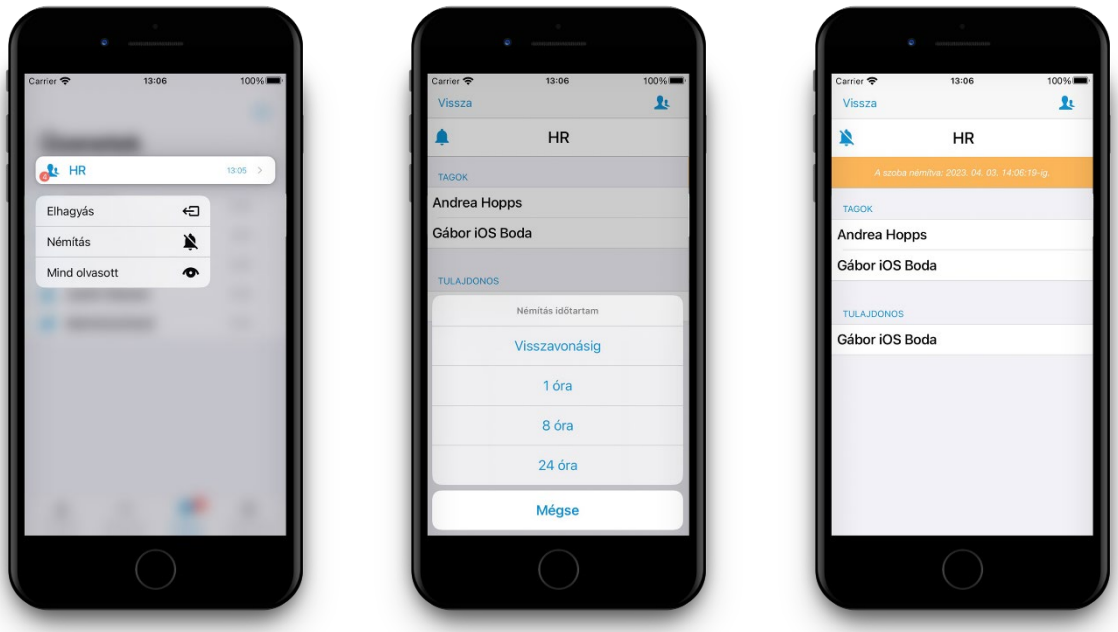




Once selected, the next message will be accompanied by the playback of the given tone.

8.2 Muting options

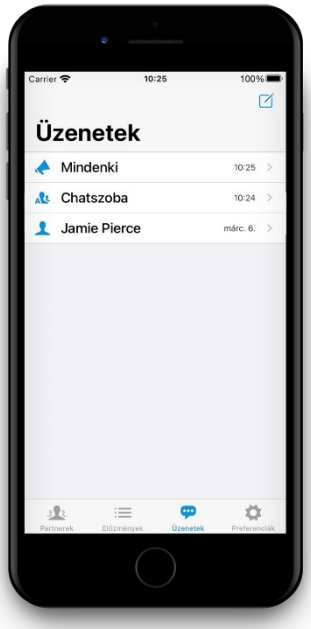
If you do not want to hear a beep from a chat room, you can mute the chat room. There are two ways to mute a room. You can mute the room by long-tapping on the room name and selecting "Mute room" from the options that pop up, or by tapping the "mute" icon in the room settings.



After selecting the mute setting, the user has the option to choose whether to mute the room until cancelled or only for a specific period of time (1 hour, 8 hours, 24 hours). The mute settings for a room may vary from room to room.

8.3 Mute room status

The "bell" icon next to the name of the muted room indicates the muted state of the room. In the room settings, the user can check how long the room has been muted.



Within the mute interval, the room will not beep when messages are received, but after the period has expired, the restriction will be automatically lifted and messages will be accompanied by the selected beep.

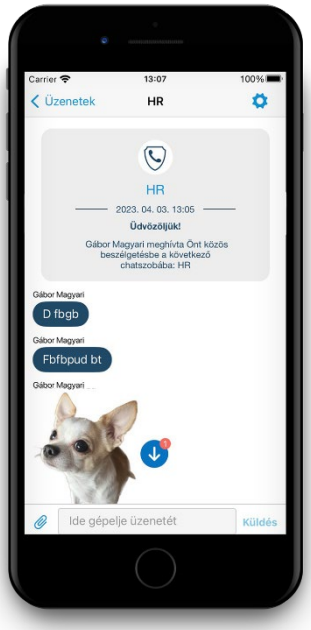
9. Managing unread messages

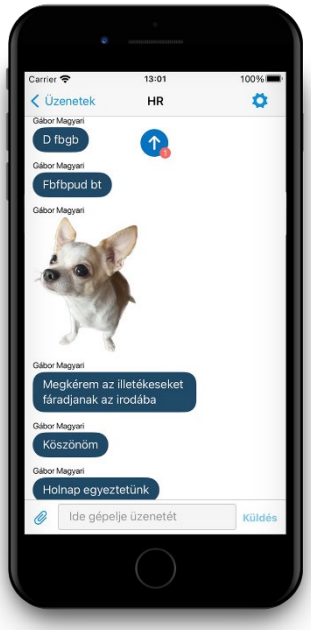
9.1 Jump to unread messages

Users have the option to jump directly to unread messages, in case the message is in the background or on a lock screen. To jump to an unread message, tap the notification.

9.2 Scroll to unread messages, mark as read

In the event that the user receives messages in a conversation or room that they have not yet read and the screen position allows, a quick scroll option will appear, depending on the current screen position. If the user is higher up in the conversation and has an unread message at the bottom of the conversation, a scroll icon will appear towards the bottom of the screen, if a message is inserted earlier in the conversation, the application will offer an up-scroll option at the top of the screen.



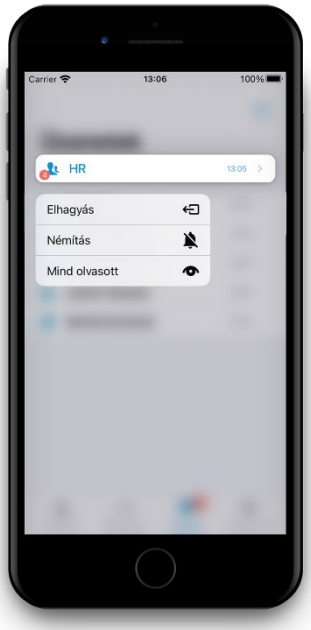


By pressing the scroll icon, the application automatically scrolls the conversation to the first unread message, as many times as the number of unread messages the user has had in the given time. Unread messages will be marked as read after a short flash, and the scroll icon option will disappear after all messages have been read.

9.3 Bulk message reading

The user has the possibility to set unread messages in message exchanges and chat rooms to "read" status at the same time. To do this, the user must select the "All read"

option from the pop-up menu on the messages screen by long-tapping the name of the selected conversation or chat room.

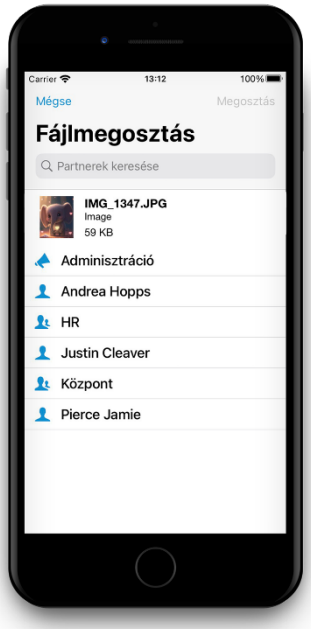


9.3.1 Upload and download statuses

The upload/download status of files and images is indicated by a percentage-based indicator bar below the preview of the file images. When uploading and downloading is complete, it will automatically disappear.

9.4 External file sharing

Users have the option to share a file or picture directly with a chat partner or chat room from the device's file manager "Files" or gallery "Photos". To share, the user must select the "KvantPhone" application from the list of applications that appear, after long-tapping the file or image and selecting "Share".



Once selected, the application will ask the user for identification and then the "File Sharing" screen will appear. After selecting the name of the partner or room, the "Share" button in the top right-hand corner will switch to active and allow you to share the file or image you want.

10. Preferences

10.1 Security settings

The "Security settings" menu item contains additional options to control and protect the application.

10.1.1 Password replacement

By selecting the menu item Change lock code, you have the possibility to change your previous lock code (PIN). After changing it, the new lock code will be used immediately, and you will have to use this new lock code every time you change it.

10.1.2 Use Touch ID/Face ID

Using Touch ID/Face ID is a more convenient alternative to using the Lock Code to unlock the app. The "Use Touch ID/Face ID" toggle allows you to enable fingerprint-based identification if your device and its operating system support it.

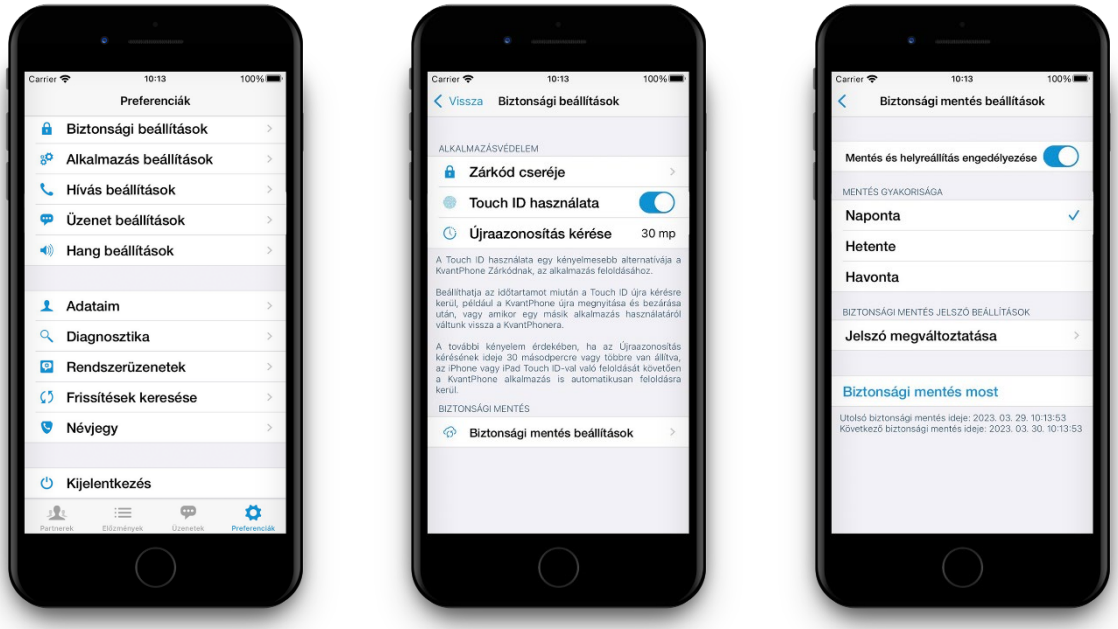
10.1.3 Re-identification request

You can set the duration after Touch ID/Face ID is requested again, for example after reopening and closing an application or when switching back to KvantPhone from using another application.

For added convenience, if the Re-identification request time is set to 30 seconds or more, the KvantPhone app will also be automatically unlocked after unlocking your iPhone or iPad with Touch ID/Face ID.

10.1.4 Backup settings

The user has the option to turn the "Backup" function on or off during use.



10.1.4.1 Enable save and restore

By opening the menu item, you can enable the data recovery option. If set, the user must enter a strong password for the backup. Once the backup is successfully enabled, it will upload the local data to the server in encrypted form.

If backup is disabled, after entering the Lock Code, the data on the server will be deleted.

10.1.4.2 Frequency of saving

The user can specify in the settings when the backup should take place. Backups can be performed on a daily, weekly or monthly basis. The first backup time is always the time when the function is switched on, and the subsequent times are the last backup times.

10.1.4.3 Change password

The user has the possibility to change the password for the backup. By selecting the "Change Password" option, after identification, the user will be asked to select a sufficiently complex password for the backup, confirm it and then finalise it by clicking on the "Change" button.

10.1.4.4 Backup now

The user can click on the "Backup now" button at any time, in which case the backup will be performed and, if successful, the schedule will be live from that point on. The application will inform the user of the fact of a successful or unsuccessful backup.

10.2 Application settings

The "Settings" page contains the most important features available when using the app.

10.2.1 Language

Use this menu to set the language in which the application interface and system messages are displayed.

By default, the app selects the language used for installation and app interface based on the iOS system language. Automatic selection of the default language is only possible for languages supported by the app as a language pack.

For iOS 13 or later, language selection is possible if the user has multiple languages installed at the system level. Tapping on the language selection, after checking the preferred language, will navigate the user to the app settings where they can change the language.

10.2.2 Sort by

Use this option to set the rule for sorting the names displayed on the Partners page. The sorting will always be done according to the current filter, i.e. if you only display the list of Favourite Partners on the Partners screen, the sorting will be applied to this list.

In the menu, you can choose between two different sorting options:

- Surname, Last name
- Last name, Surname

10.2.3 Display order

Use this option to set the display rule for the names displayed on the Partners page.

You can choose between two types of display in the menu:

- Last name, Surname
- Surname, Last name

10.3 Call settings

The "Call settings" menu contains settings options to help you make calls and manage your call log.

10.3.1 History

You can use the "History" settings menu to turn off call history logging. When used, call records are not logged in the application.

10.3.2 Caller name visible

The "Caller name displayed" toggle allows you to toggle the display of the caller's name in the tape notifications and on the lock screen of the device on and off.

10.3.3 Call indicator

The call indicators show the call quality statistics for a given moment after the call has been built up. By default, after the call is established, the statistics window is automatically minimized. You can open it again by tapping on the statistics.

10.3.4 Media player

The media repeater allows you to set up a call even in cases where direct connection to the remote party is not possible. The CryptTalk call will be established with the

interposition of a so-called "media relay" server. The encrypted voice communication will take place through this relay server. Your communication is still secured because the server cannot decrypt the data stream and does not store it.

10.3.5 Send e-mail notifications

Send an email notification of missed events while you are unavailable or your application is not running.

10.4 Message settings

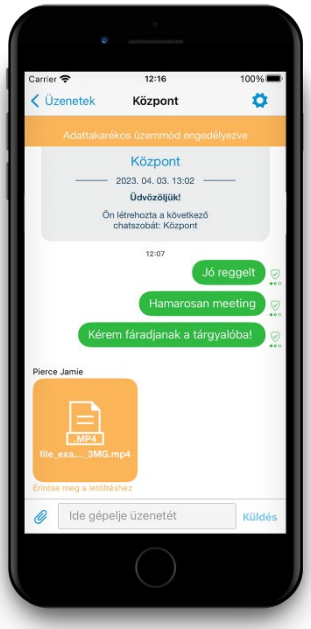
The "Message settings" menu contains the options that control and help you send messages.

10.4.1 Automatic download

In the "Message settings", users can use the "Automatic download" option to limit whether files are downloaded automatically or only after tapping on the file preview or selecting the "download" option. The setting is independent of the network type, the restriction is applied to all network types. By restricting automatic downloading, a replacement view of the files is displayed instead. When automatic downloading is turned back on, files not downloaded before will be downloaded automatically.

10.4.2 Restrict downloads

In the app, you can turn on file download size limits for mobile networks. The limits are only applied to mobile networks, thus helping to save data. Users can set the maximum size limit for automatic file downloads to 1MB and 10MB after enabling the "Limit downloads" option.



In the message exchange, a "yellow" data-saving mode bar indicates that the restriction is active. Files exceeding the limit will not be downloaded automatically. In this case, the download can be performed by the user by tapping on the preview of the file or by selecting "download" on a long tap on the "replacement" bubble of the file. Files within the download limit will still be downloaded automatically.

10.4.3 Reading receipts

By sending read receipts, your partner is automatically notified when the message you sent has been read. By turning off read receipts, you can manually decide whether or not you want to mark the message as read by long-tapping on the text bubble.

10.5 Sound settings

In the menu, you can set whether or not to use a ringtone when the application is running (e.g. to alert you when a call is coming in). Using a ringtone enhances the user experience and makes it easier to use. Given that you can mute your phone using the mute switch if necessary, we recommend that you keep this setting on at all times.

10.5.1 Ringtone

You can make the app more comfortable to use by customising the ringtone. You have the option to choose from a pre-made ringtone that the app will use to signal incoming calls.

10.5.2 Encryption sounds

You can make the app more convenient to use by customising the encryption sounds. You have the option to choose from pre-made progress tones that best suit your needs and that the application will use later when building calls.

10.5.3 Chat room sounds

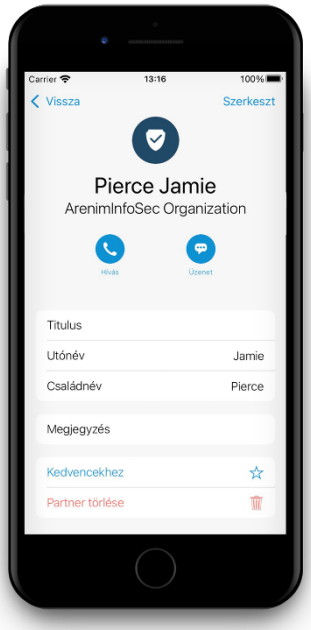
You can make the app more comfortable to use by customising the chat room sounds. You have the option to choose from pre-made chat room message alert tones that best suit you and that the app will use later to alert you to chat room events.

10.5.4 Vibration when calling

In the app, you can use vibrations to signal calls and messages. This is possible if the use of "vibration" is enabled in the operating system of your device. When the switch is on, the device will detect when you have a call or message even if it is muted.

10.6 Adataim

You can edit your personal data in the "My data" menu. On this screen, you can view a summary of your personal information related to your account and edit your Title, Family and Last Name.



10.7 Diagnostics

The logging function makes troubleshooting easier. By default, the feature is not available and can only be enabled remotely for debugging purposes only. For security reasons, the application does not collect or log any data during use.

Logging should only be enabled for specific troubleshooting and reporting to technical support.

Once the log file has been sent, logging is turned off remotely. When logging is turned off, all data logged up to that point is deleted and data collection related to the operation of the application stops.

10.7.1 Logging

When logging is enabled, the application writes all actions performed by all users or the application engine to a log file, and two new menu items become available on the "Diagnostics" screen.

10.7.1.1 Error report

The log file can be sent to the technical support team immediately after the error to be reported has occurred, thanks to the "Report an error" function.

When sending the log file, on the screen that appears, enter a short title and description of the error event, set the severity of the error event under advanced settings if necessary, and then send the error report. You can also attach a screenshot or video to the bug report by selecting Attach file in the top right corner of the screen. To attach image files, please give the application the necessary permissions to access the gallery, files.

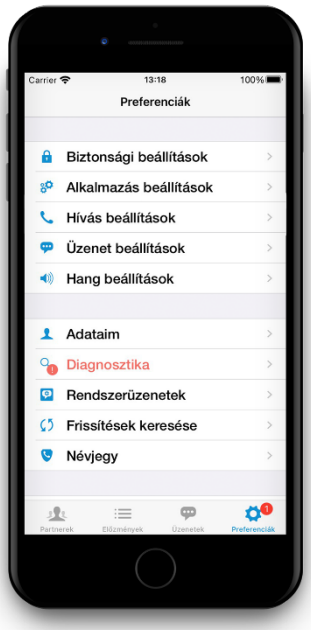
10.7.1.2 Delete a log file

This function is used to delete diagnostic log files. After deletion, the application starts collecting diagnostic data in a clean log file, without turning off logging. The contents of the log files are automatically deleted after each error report is sent.

10.7.2 Request an error report by an administrator

If users experience an error in the functioning of the client, the administrator has the possibility to request the user to submit a bug report.

In response to the request, the selected user's application will notify the user of the request and the user must approve the request. In the background, a ribbon notification indicates the request and in the foreground, the Diagnostics menu is highlighted and a red exclamation mark is displayed next to it.



10.7.2.1 Acceptance of a request for a statement of objection

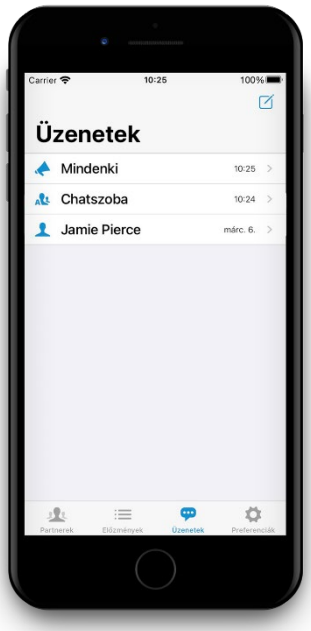
If accepted, tap on the "Report an error" tab, and after specifying the subject and description of the error, and optionally attaching an attachment, you can send the report. If the logging menu option was enabled according to the user's configuration settings, after sending the report, you will be returned to the normal or debugging screen. In case the logging was not enabled for the user according to the configuration, the temporary Diagnostics menu item will disappear after the fault report has been sent.

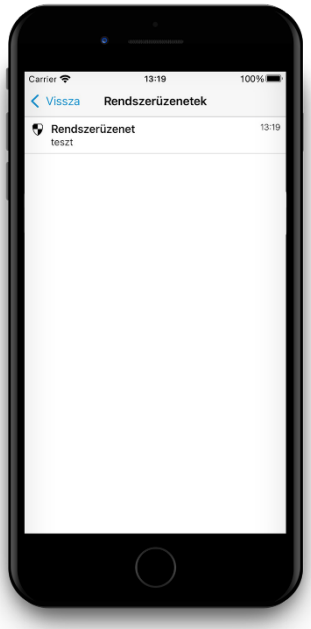
10.7.2.2 Rejection of a request for a statement of objection

Before rejecting the request, the application will warn the user if it is sure whether to reject the request. If the user rejects the request, the administrator must request it again. If the logging menu option was enabled according to the user's configuration settings, after a rejection, the normal or debugging screen is returned. In the case where the user did not have logging enabled by configuration, the temporary Diagnostics menu item will disappear after the request is rejected.

10.8 System messages

During certain operational and maintenance works, some level of service outage is unavoidable. These planned events are notified to users by the system messages function.





10.9 Types of system messages

There are two types of system messages:

1. Message intended only for identified users

These are messages that may contain confidential information, but may concern all users.

2. Message also intended for unidentified users,

These are messages that are not confidential, but are important for all users to receive (e.g. notification of mandatory updates, system errors, shutdowns, maintenance)

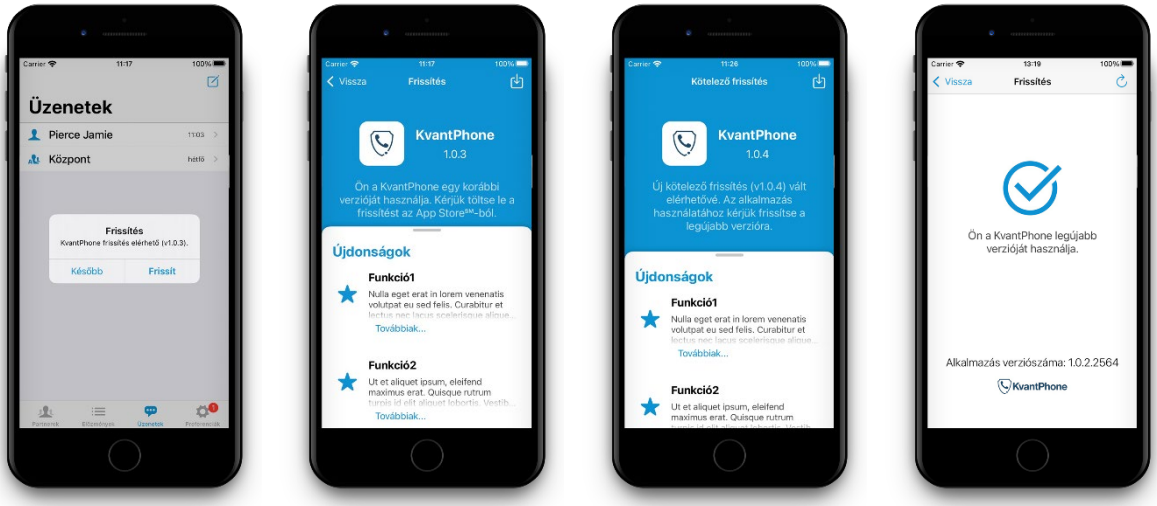
10.10 Read system messages

If the administrator sends a message without identification, the device's operating system will also display it on the notification tape. Also, when logged into the application, a notification will appear in the "Preferences-System Messages" menu, which will be tapped to display the system message. Messages are automatically read when opened. The user cannot perform any other functions in the menu.

The user receives a notification "Encrypted system message received" for an identified message. After identification, the user can read it in the "System Messages" menu in the "Preferences" menu. Messages are automatically read once opened. The user cannot perform any other functions in the menu.

10.11 Search for updates

This screen displays the recommended and mandatory updates available for your application, as well as a list of what's new for the update.



In case of a recommended update, the user has the possibility to postpone the update. While in the case of a mandatory update, the user will not be able to use the features

of the application until the update is completed. Once the updates are completed, the application will display a green tick icon to indicate that it is running the latest version of the application.

10.12 Contact

This screen provides the user with basic version information and legal information about the application. The screen also contains links to the Terms of Use, Privacy Policy, and Policy of Use and the date of acceptance of the Policy.

10.13 Logout

After logging out, the app will temporarily stop receiving messages, calls and notifications. If you are waiting for an important message or call, logging out of the application is not recommended.