

# Wave Desktop Application Release Notes

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## WAVE DESKTOP VERSION 1.19.12

### PRODUCT NAME

Wave Desktop Application

### DATE

02/20/2023

### IMPORTANT NOTE

- Wave Desktop application is available for Windows and macOS. Users can download the latest Wave desktop application from the link: <https://fw.gdms.cloud/wave/download/>

### CHANGES SINCE VERSION 1.17.8

#### ENHANCEMENTS

- [Add-in] Added WhatsApp add-in, Office 365 add-in, and IPVideoTalk add-in to the Wave App Store. Please refer to the Wave Desktop CRM Add-ins User Guide in the Grandstream Documentation Center.
- [Add-in] Added Wave add-in on Outlook [WAVE ADD-IN FOR OUTLOOK]
- [Add-in] Added Wave H5 Google Chrome add-in [WAVE H5 GOOGLE CHROME ADD-IN]
- [Call/Meeting] Added a toolbar and a small personal window that appears during screen share [SCREEN SHARE TOOLBAR AND PERSONAL WINDOW]
- [Call/Meeting] Calls and meetings will now use their own window [CALL/MEEETING WINDOW]
- [Call/Meeting] Users can now change what they are sharing without exiting the current screen share [CHANGE SCREEN SHARE CONTENT]
- [Call/Meeting] Added a call/meeting ending indicator tone
- [Call/Meeting] Added support for GSFECC, which improves audio packet loss protection capabilities.
- [Chat] Users can now forward multiple chat messages to a contact [FORWARD MULTIPLE MESSAGES]
- [Chat] The local time of Wave contacts outside the user's time zone will now be displayed at the bottom of chats and under contact details
- [Chat] Images can now be forwarded to other chats and rotated. Note: Forwarded images will not retain rotation
- [Chat] Added end-to-end encrypted chat feature [END-TO-END ENCRYPTED CHAT]
- [Contacts] Added the Personal Contacts feature [PERSONAL CONTACTS]
- [Meetings] Users can now schedule onsite meetings [ONSITE MEETINGS]
- [Meetings] Meeting hosts can now edit and cancel upcoming meetings from the *Meeting List* page. Ongoing meetings can also be ended from this page.

## BUG FIXES

- [User Interface] Several UI improvements and fixes
- [Application] Fixed a memory leak issue caused by virtual backgrounds in long video calls
- [Calls/Meetings] Fixed an issue with the toolbar working abnormally
- [Calls/Meetings] Fixed an issue with retrieving a remote meeting participant's details
- [Calls/Meetings] Fixed an issue with the Alternative Ringing Speaker device continuing to ring even after an incoming call is declined.
- [Application] Fixed an issue with high usage of CPU under some specific scenarios.

## KNOWN ISSUES

- Wave Desktop cannot be opened after overwriting an existing installation with a .msi installation file.

## NEW FEATURES OVERVIEW

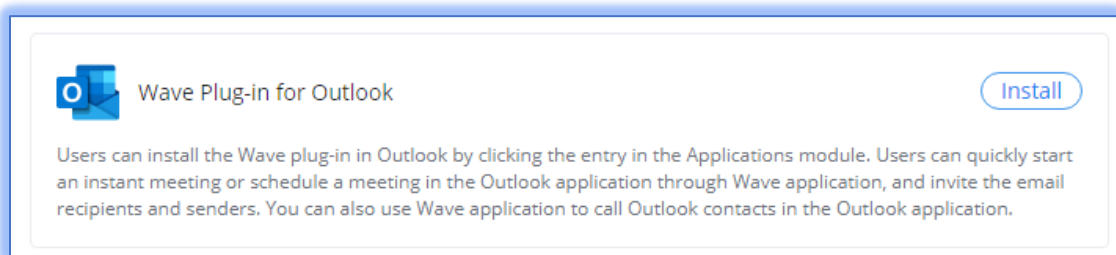
This section describes the major new features/changes introduced in the update and provides instructions for usage.

### WAVE ADD-IN FOR OUTLOOK

Wave Desktop 1.19.11 introduces and supports the Outlook add-in, allowing users to quickly start and schedule calls/meetings directly from Outlook.

To set up the Outlook plugin:

1. Download and install the **Wave Plug-in for Outlook** add-in from the Wave App Store. After clicking the *Install* button, the user will be redirected to download the add-in through their browser, which can then be installed into an existing Outlook application.



**Figure 1: Installing the Wave Outlook Plugin**

2. After installing the add-in to Outlook, the user can see the Wave **Meeting** and **Call** buttons on the Outlook Ribbon.



Figure 2: Wave Add-in on Outlook

To set up Wave meetings from Outlook, user can click the **Meeting** button and select either *Instant Meeting* or *Schedule*. The user will then be redirected to the Wave Desktop interface to create/schedule the meeting. meeting creation interface of Wave Desktop application. Selected Outlooks email contacts will be automatically added as meeting invitees.

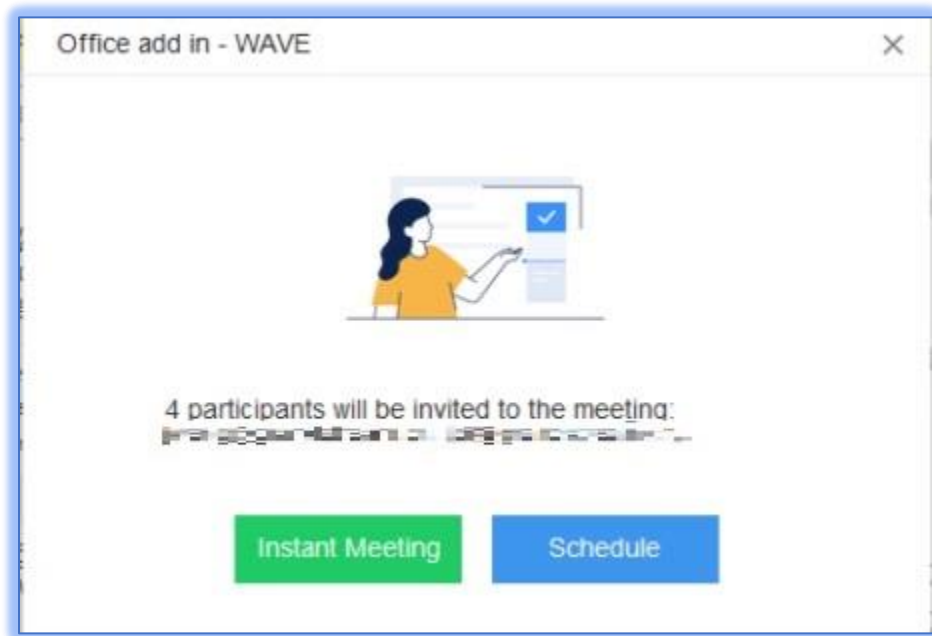


Figure 3: Start/Schedule Wave Meeting from Outlook

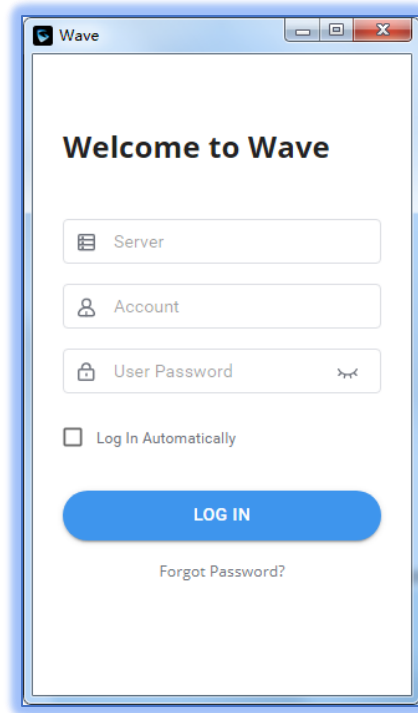
Users can also call Outlook contacts by clicking the **Call** button to dial the contact's number via Wave. If the Outlook contact does not have a number, Wave Desktop will use the contact's email address to look for a Wave contact with that same email address and dial that Wave contact's number.

#### WAVE H5 GOOGLE CHROME ADD-IN

The Wave H5 Google Chrome add-in is now available in the Chrome Web Store and is a simpler alternative to Wave Desktop.

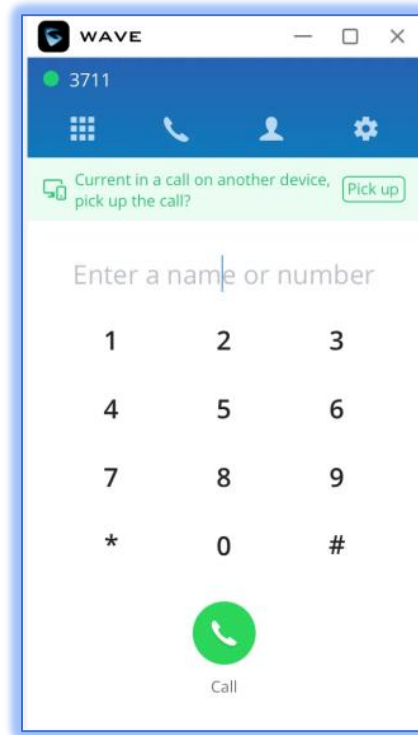
1. Install the Wave H5 add-in from the Chrome Web Store
2. Log into your Wave account

**Note:** Users cannot log into the Wave H5 add-in, Wave Web, and Desktop client at the same time. If the user logs into Wave H5 add-in, the same Wave account will be logged out from Wave Desktop and Wave Web.



**Figure 4: Wave H5 Login**

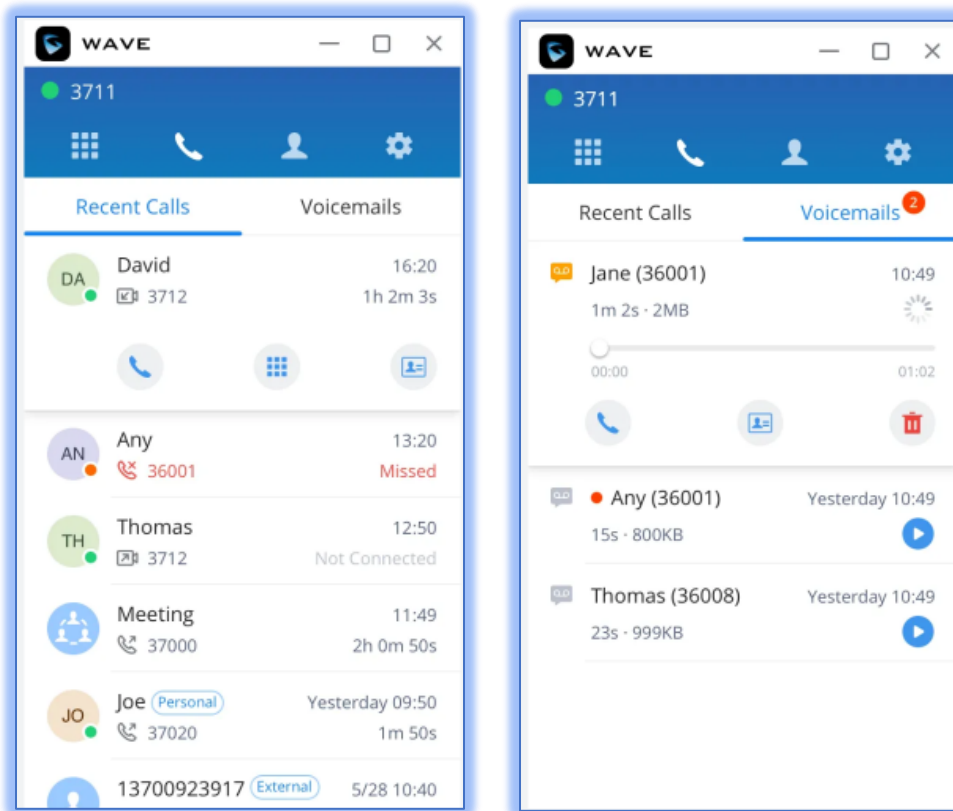
1. After login, the Wave interface will be displayed as such:



**Figure 5: Wave H5 Dial Pad**

**Dial Pad:** From here, users can enter numbers or names to search for contacts.

**Recent Calls & Voicemails:** Users can access recent calls and voicemail by clicking on the **Phone** icon. The call flip feature is supported. Users can dial the call flip feature code or click on the *Call Flip* button to quickly take over an existing call from another endpoint.



**Figure 6: Wave H5 Recent Calls and Voicemail**

The incoming call notification will be displayed as such:

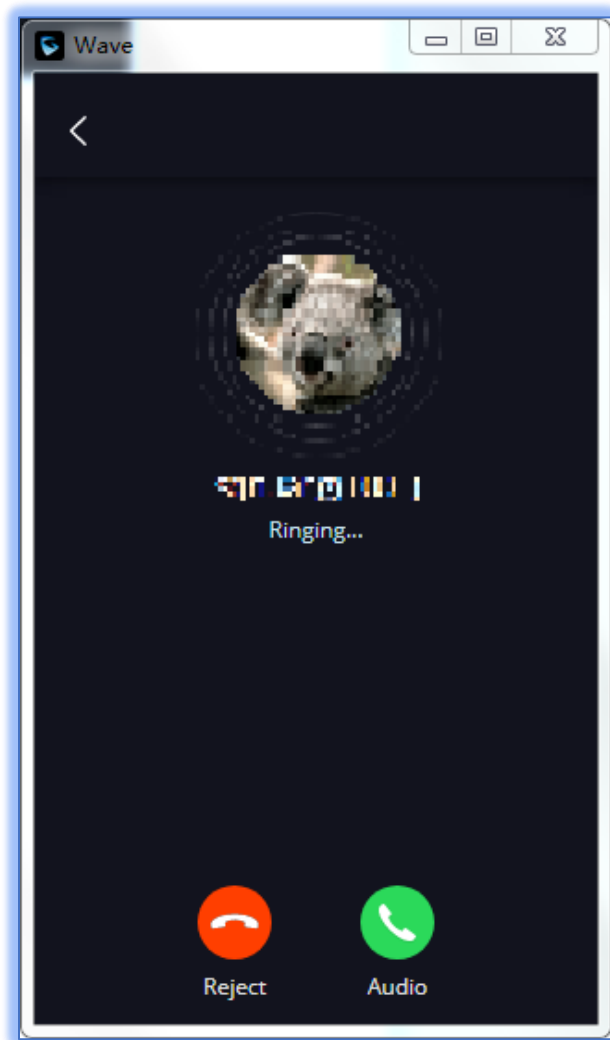
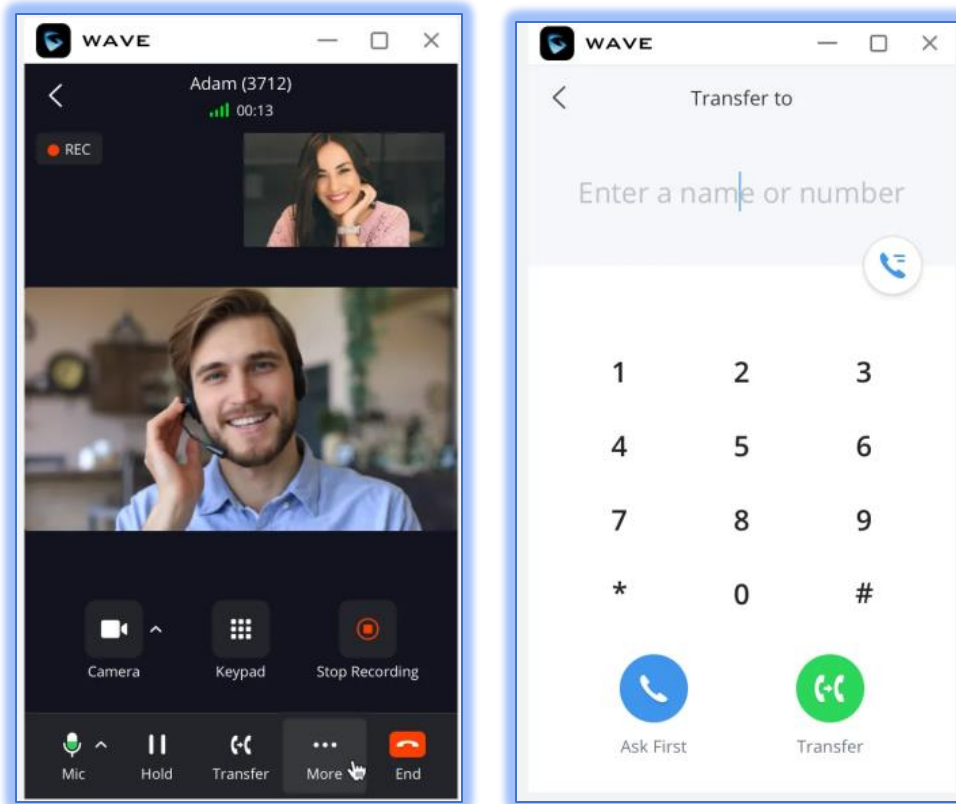


Figure 7: Wave H5 Incoming Call

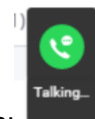
**Note:** This add-in does not support the meeting feature. Users can still join meetings through Wave H5, but the meeting will be considered a single call party.



**In-Call Interface:** Wave H5's in-call interface supports the following: multiple lines, audio/video calls, blind/attended transfer, and call holding.

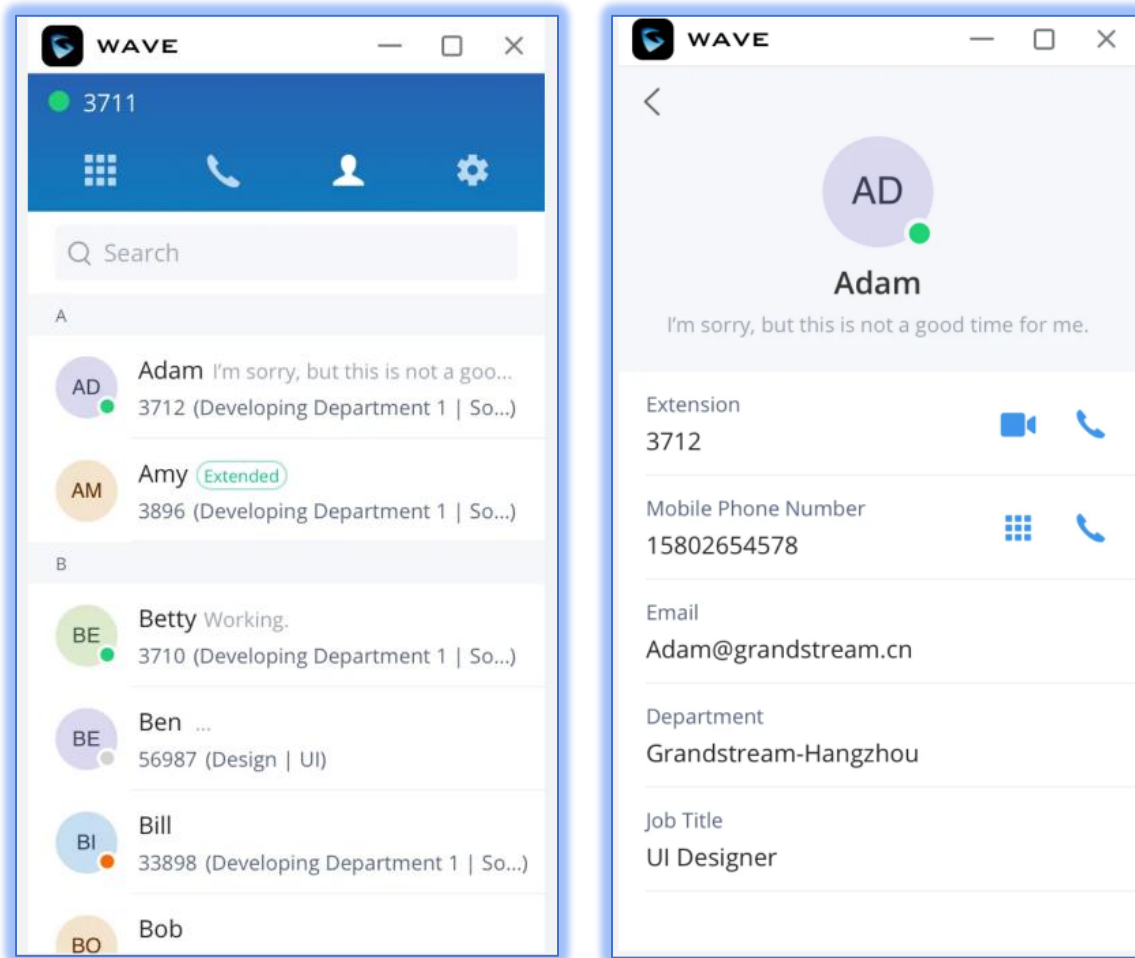


**Figure 8: Wave H5 In-Call Interface**



If the user minimizes the in-call interface, the user will see this:

**Contacts:** Contacts and contact details will be displayed as such:



**Figure 9: Wave H5 Contacts**

## Settings:

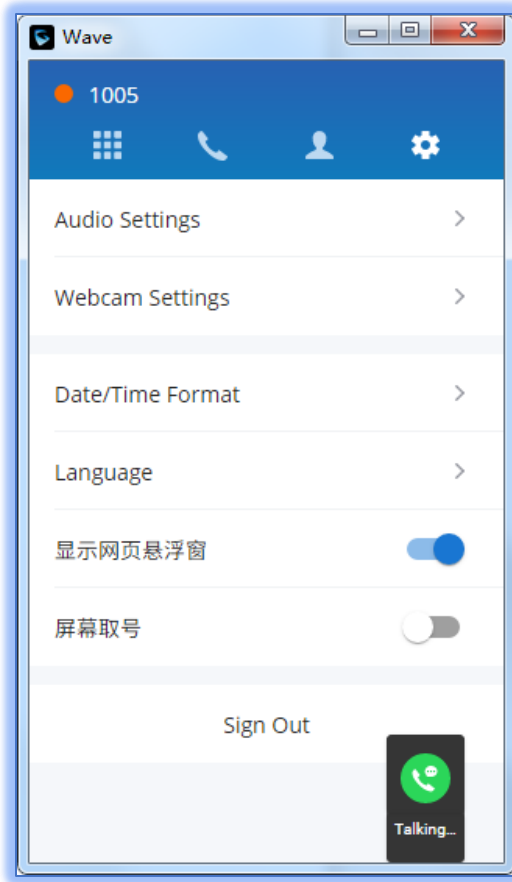
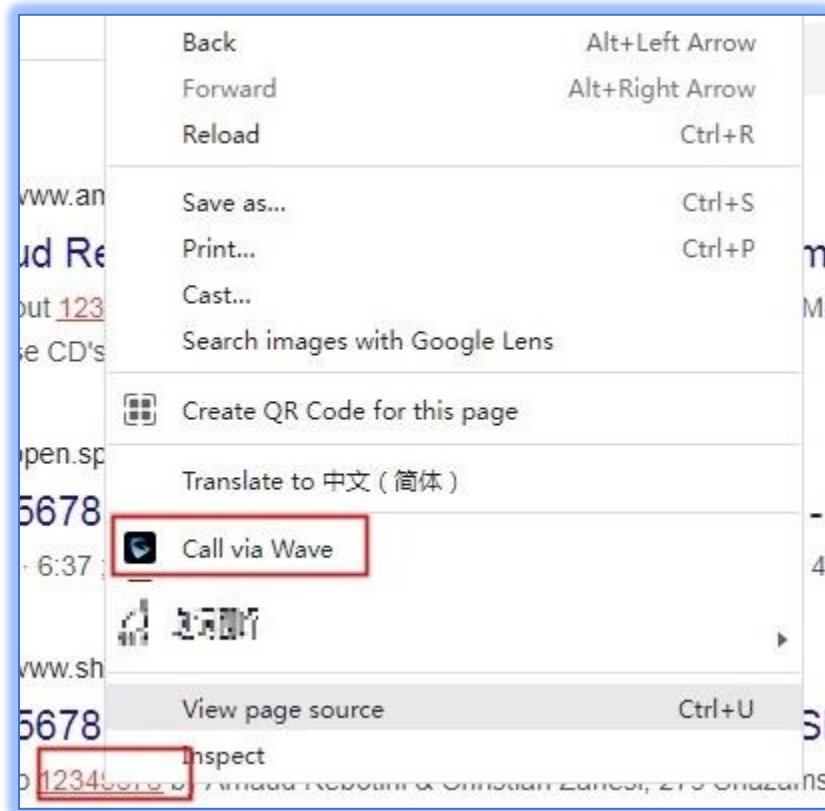


Figure 10: Wave H5 Settings

- Audio Settings – Change audio device settings
- Webcam Settings – Change video device settings
- Date/Time Format
- Language
- Floating Window – If enabled, Wave H5 will use its own dedicated window that can be freely moved and closed. A button will also be displayed that, if clicked on, will show the floating window.
- Click-2-Dial – If enabled, numbers detected on the Google Chrome page can be dialed via Wave.
  - Hovering over a detected number will show a button to call the number via Wave.
  - Right-clicking a number will bring up the context menu, which will display the option to call the number via Wave.



• **Figure 11: Wave H5 Context Menu Option**

## SCREEN SHARE TOOLBAR AND PERSONAL WINDOW

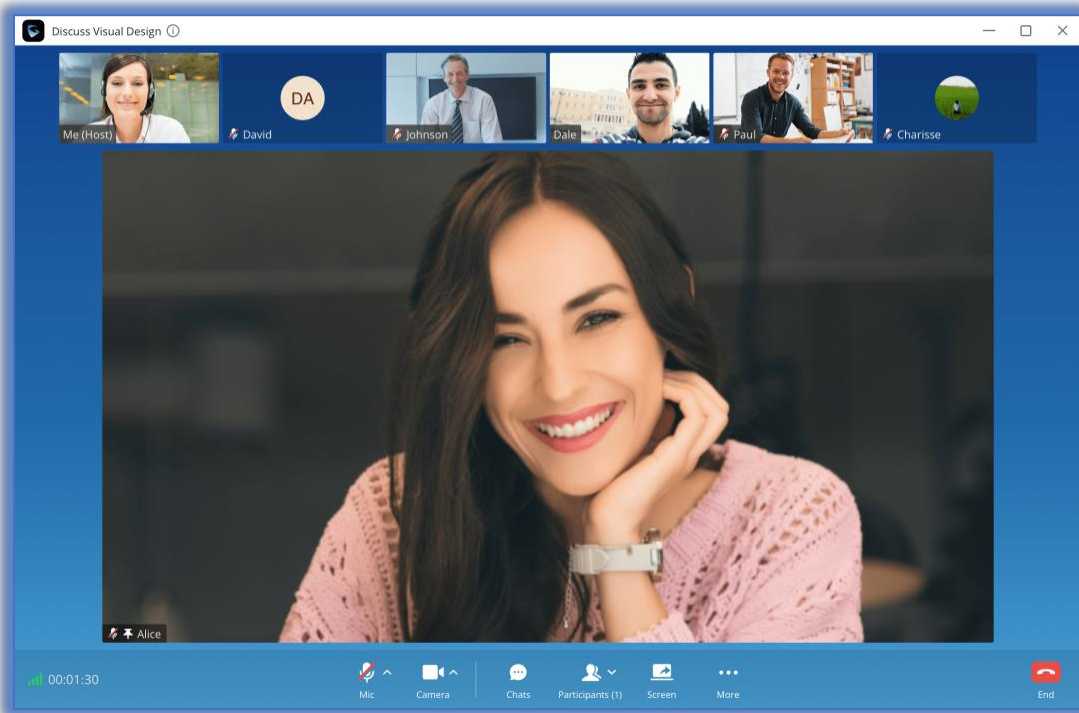
When screen sharing from Wave Desktop, a toolbar with the meeting options will now appear at the top of the screen. Additionally, a small personal floating window with one's own video (if shared), mute/unmute button, and video sharing button will also be displayed during the screen share.



**Figure 12: Toolbar and Small Video Window**

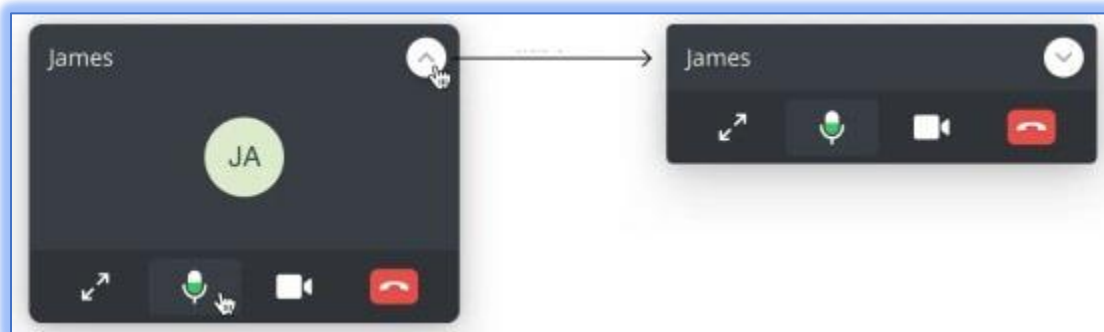
## CALL/MEEETING WINDOW

Creating new calls/meetings will now open their own dedicated window that can be freely moved and closed.



**Figure 13: Call/Meeting Window**

If the window is closed, the call/meeting will be hung up or ended. If the window is minimized, it will become a mini window as seen in the following figure:



**Figure 14: Mini Call/Meeting Window**

Clicking on the white arrow button will change the size of this mini window.

### CHANGE SCREEN SHARE CONTENT

Users can now change what they are screensharing without having to stop the existing screen share. Clicking on the arrow button next to the *Stop Sharing* button will show the option to change the content to

share.

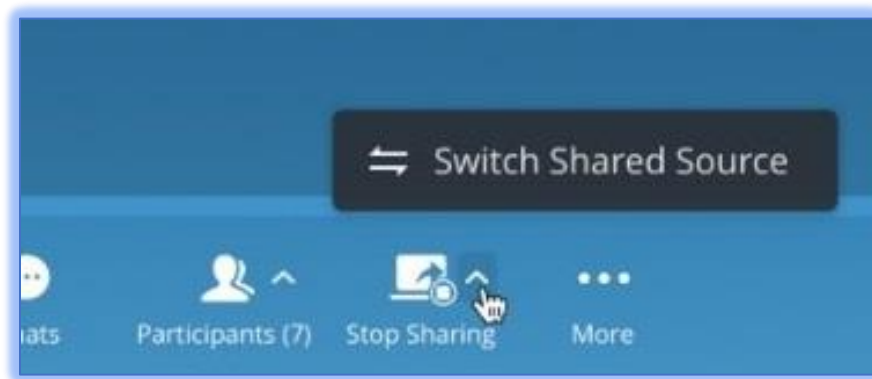


Figure 15: Change Screen Share Content

### FORWARD MULTIPLE MESSAGES

Users can now forward messages from one chat to a different chat by right clicking on a message and selecting the *Select Multiple* option.

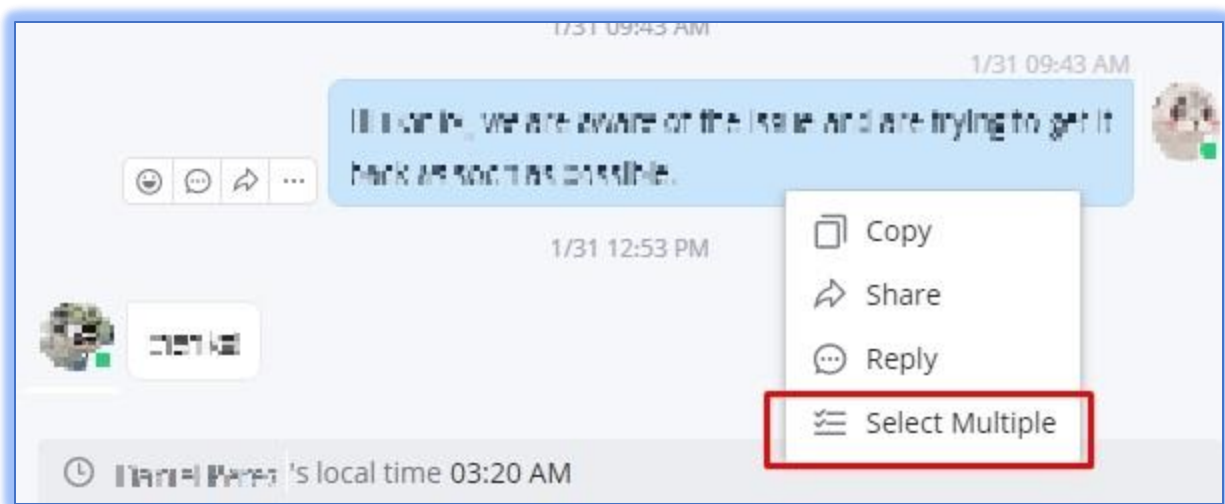
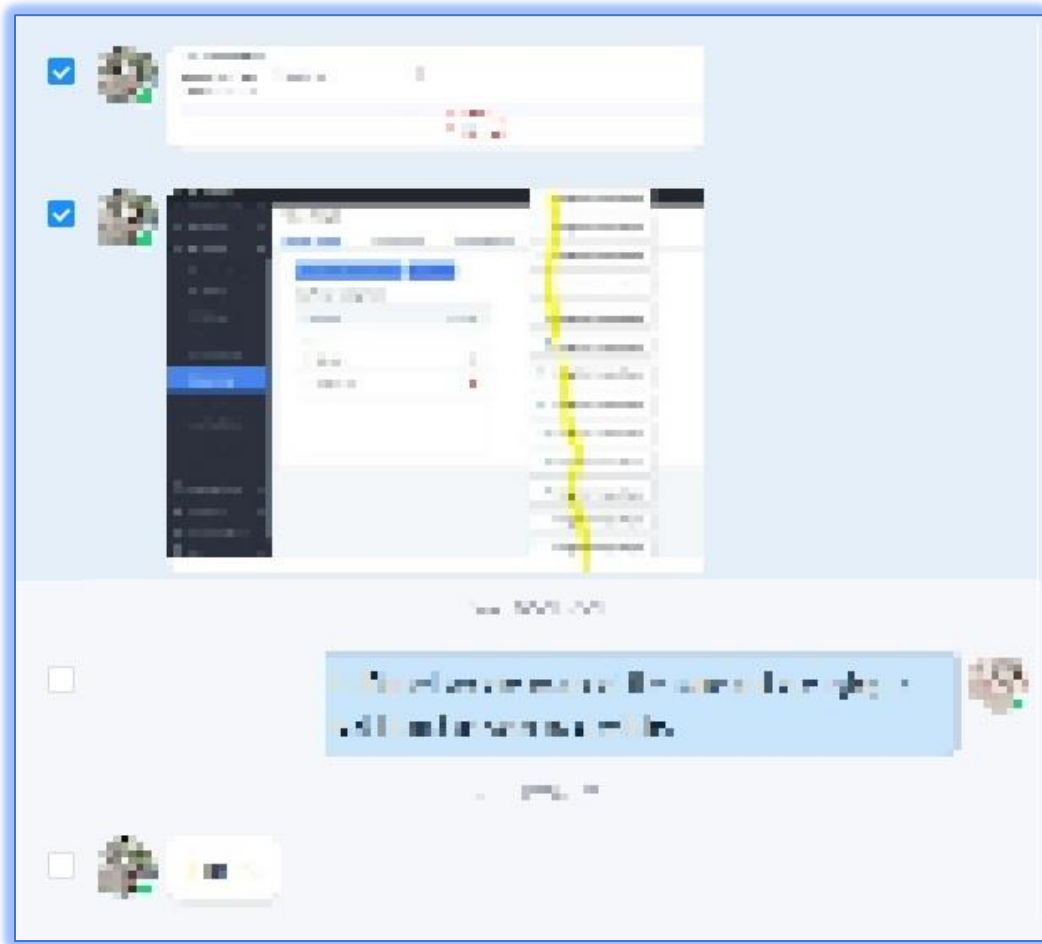


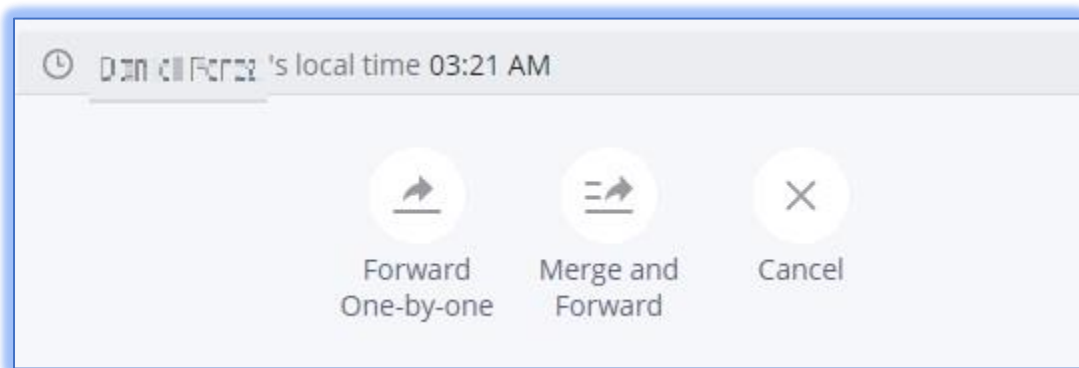
Figure 16: Forward Multiple Chat History - I

Messages will now be selectable:



**Figure 17 - Selecting Chat Messages**

The following options will appear at the bottom of the chat:



**Figure 18: Forwarding Options**

**Forward One-by-one:** Forwards each message individually and will appear as separate messages in the chat window.

**Merge and Forward** – Combines all messages into a single message separated by line before forwarding.

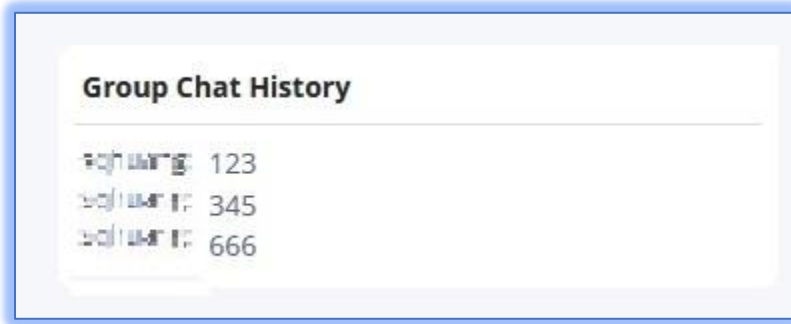


Figure 19: Merge and Forward

### END-TO-END ENCRYPTED CHAT

Wave Desktop 1.19.11 has added support for end-to-end encrypted (E2EE) chatting. If the user has been given permission via the UCM6300 management portal), the **E2EE chat** option will be available. UCM firmware must be 1.0.19.8 or higher. Users can start an E2EE chat with a contact by clicking on a contact, clicking the *Chat* icon and selecting **E2EE chat**.

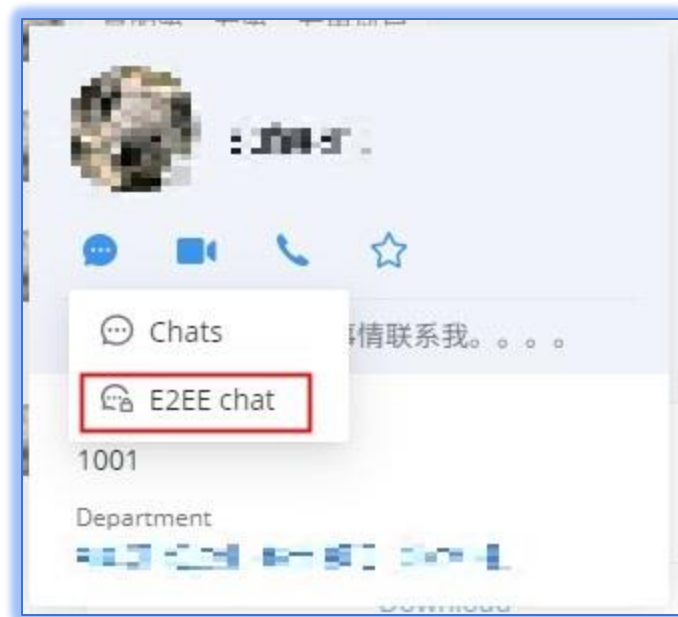
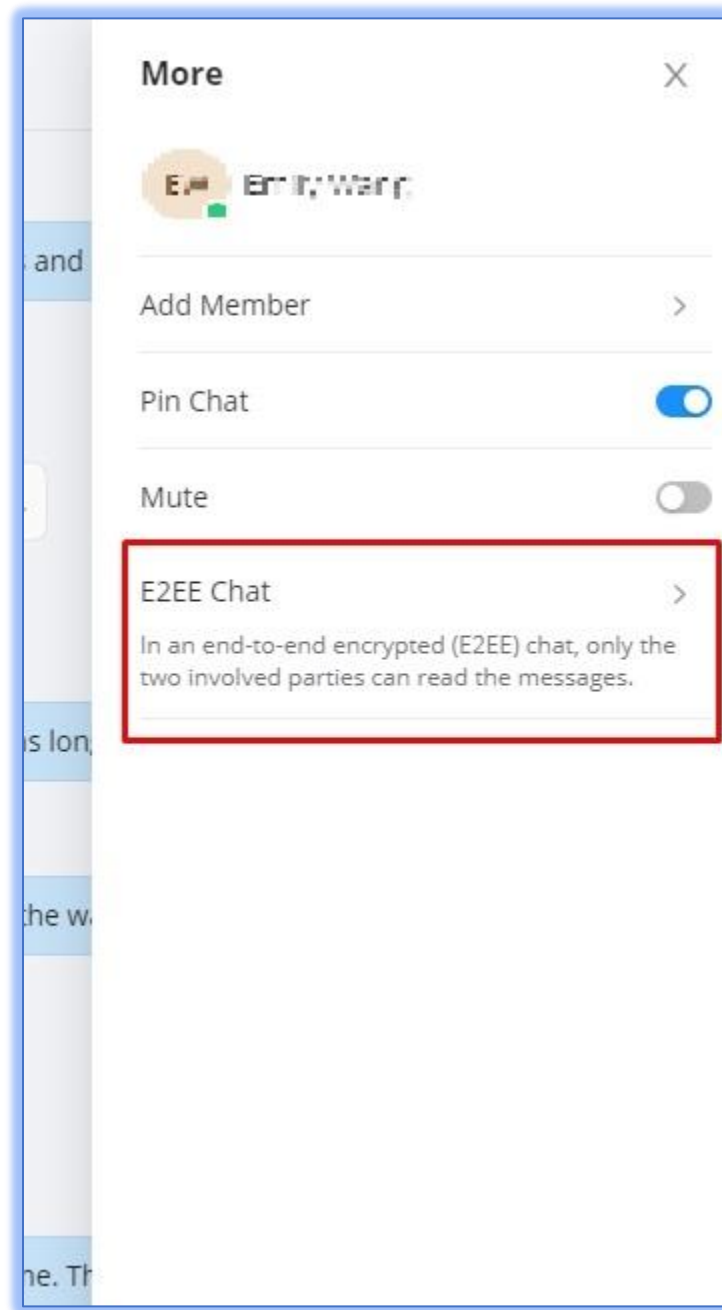


Figure 20: Contact→E2EE Chat

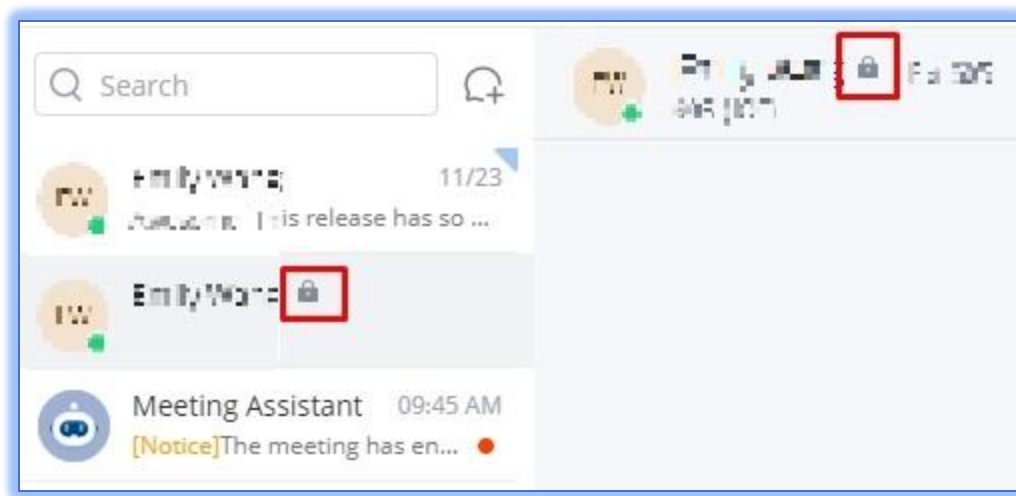
Alternatively, E2EE chat can also be accessed from an existing chat's *More* menu.





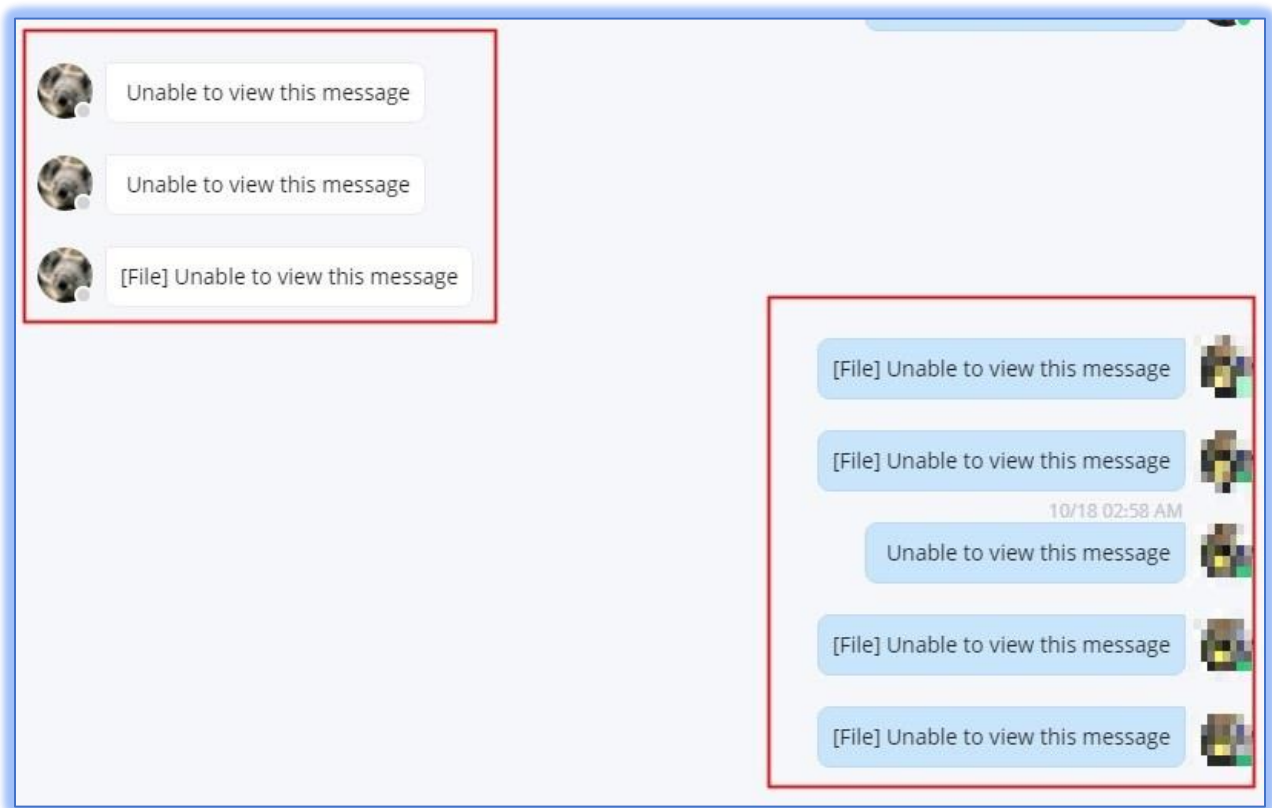
**Figure 21: More→E2EE Chat**

An E2EE chat is indicated by the lock icon next to a contact's name.



**Figure 22 - E2EE Indicator**

If logging in from another device, the user would not be able to access previous E2EE chat history unless they sync the secret key of the device from which the chat history originated from.



**Figure 23: Unviewable E2EE Chat History**

**Note:**

1. Group chats do not support E2EE.
2. If viewing old E2EE messages from a different device, only received messages will be viewable. Previously sent messages are only viewable from the device they were originally sent from. For more details about viewing old E2EE messages, please see the [\[ADD PREVIOUS SECRET KEY\]](#) section.
3. If the secret key in the current client is not up to date, E2EE chats cannot be started. Users will need to sync the secret key, which will be detailed in the following section.

## SYNCING SECRET KEY

If the user logs into Wave from a previously used device, its secret key may need to be updated before E2EE messages can be sent. To update it, the user will need to sync the secret key from the most recently used device. Two methods of syncing are available:

1. Export the secret key from the most recently used device and import it into the new device's Wave.
2. Scan the most recently used device's secret key QR code (Wave Mobile only).

To access the secret key, click on the User Profile and select **E2EE chat settings**.

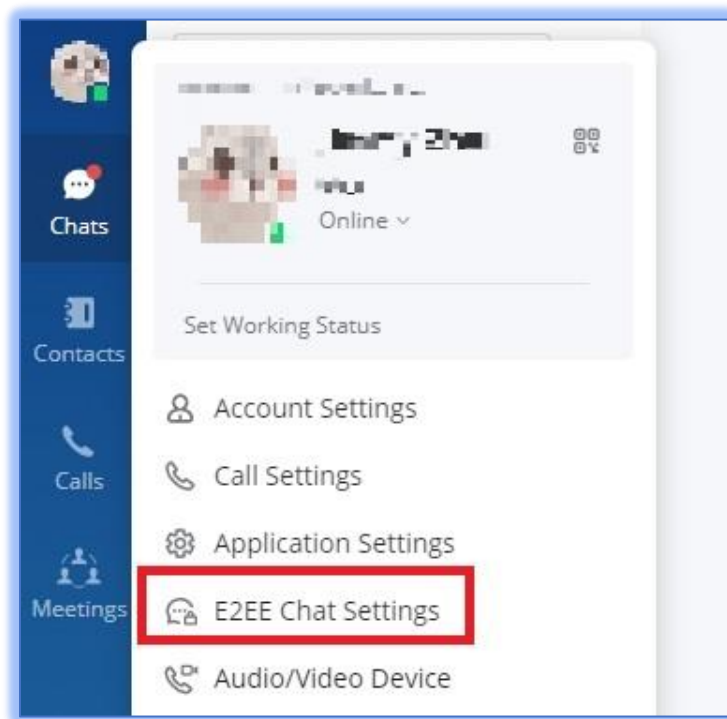


Figure 24: E2EE Chat Settings

The following window will then appear:

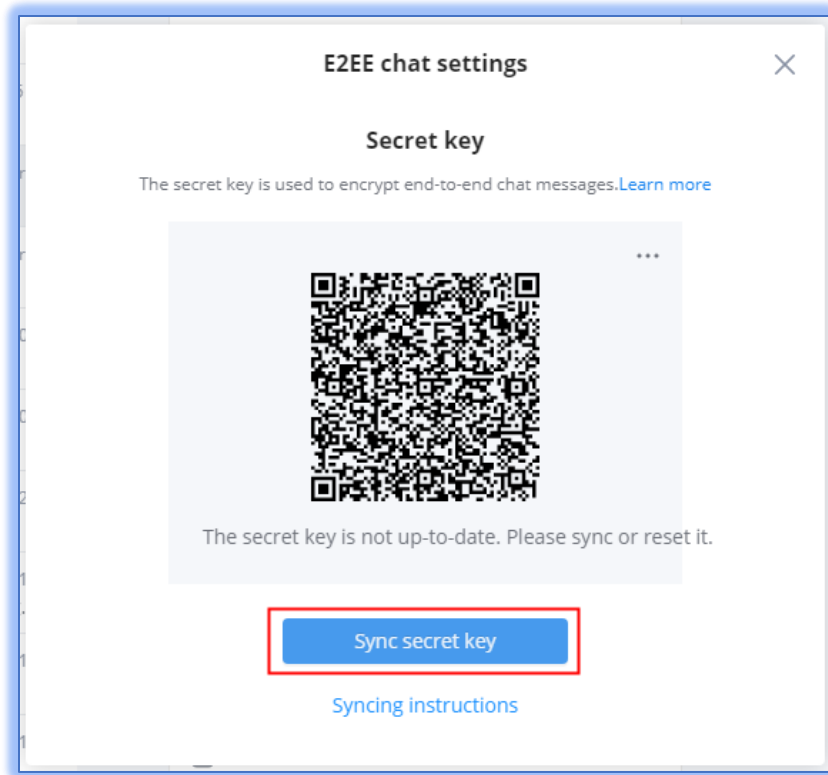


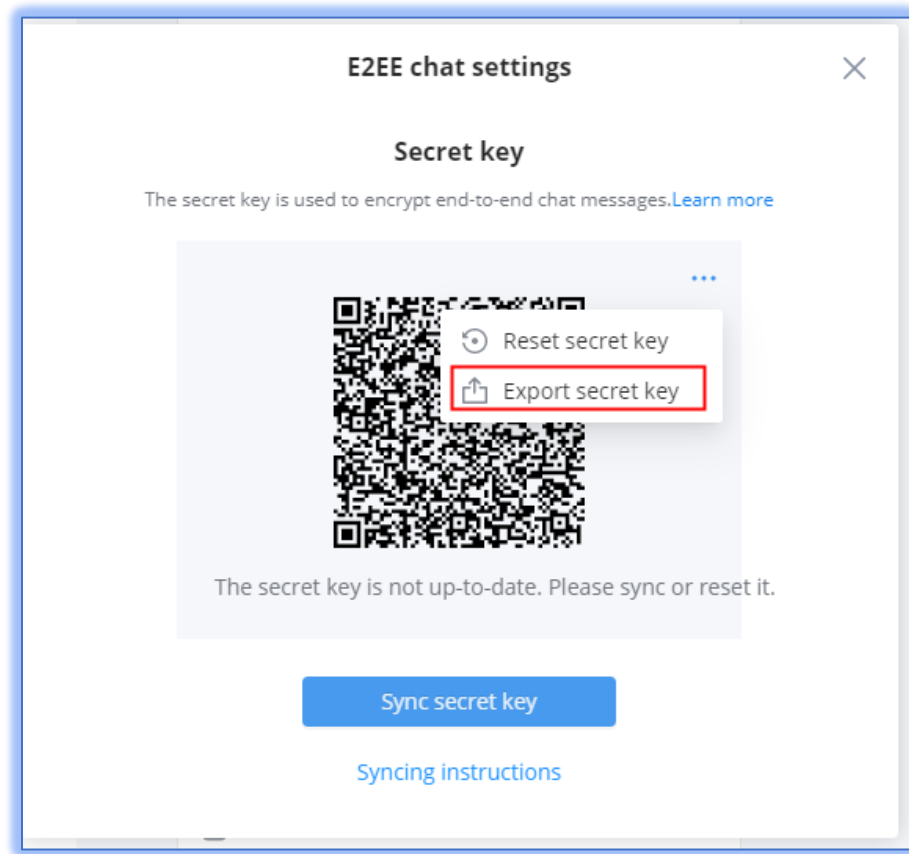
Figure 25: E2EE Chat - Sync Secret Key

From here, users can click the **Sync secret key** button to import a secret key file or scan the QR code with Wave Mobile.

## EXPORT SECRET KEY

There are two ways to export a secret key:

1. To import a secret key into Wave Desktop, users will need the secret key file exported from the most recently used device. To retrieve this secret key, open the E2EE chat settings on that device. Click the **\*\*\*** button at the upper right corner of the QR code and select **Export secret key**. The user can then save the file to desired location.



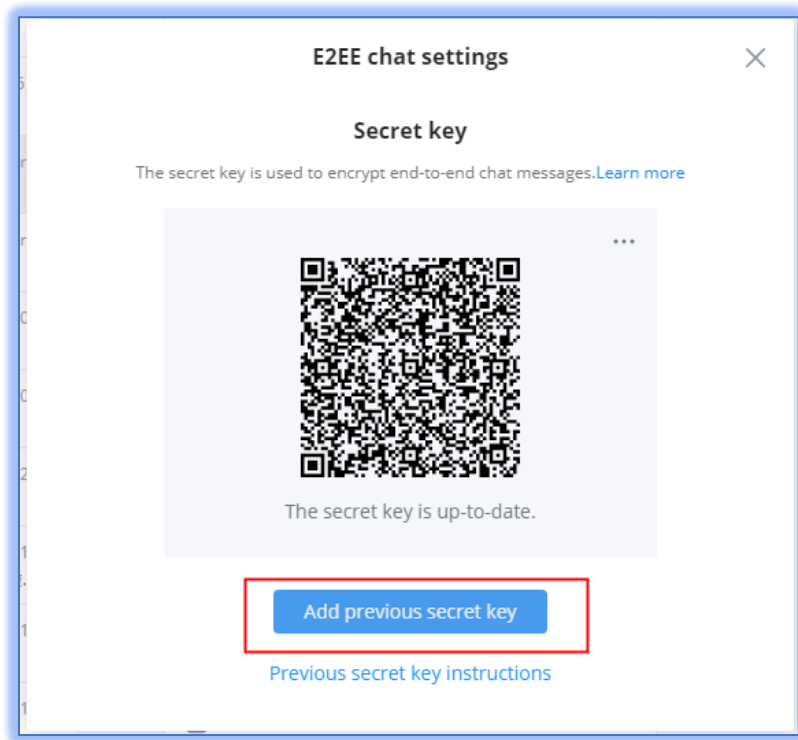
**Figure 26: E2EE Chat - Export Secret Key**

2. The QR code can be screenshotted and saved as an image for offline access. This QR code can be scanned by Wave Mobile to retrieve the most recently used device's secret key.

## **ADD PREVIOUS SECRET KEY**

If the user is unable to view E2EE chat history originating from another device, the user will need to export that device's secret key and import it into the new device's Wave to decrypt and view the old device's E2EE chat history.

**Note:** The **Add previous secret key** option is only available if the currently used device's secret key is up-to-date.




**Figure 27: E2EE Chat - Add Previous Secret Key**

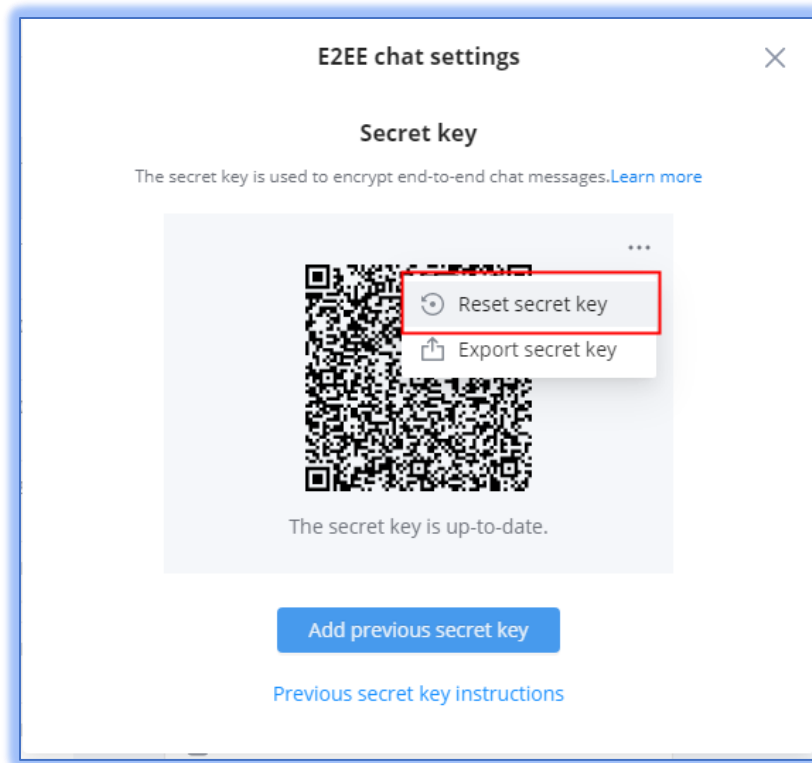
## RESET SECRET KEY

If the user has switched to another client and is unable to find or retrieve the latest secret key, the user can reset it.

### Note:

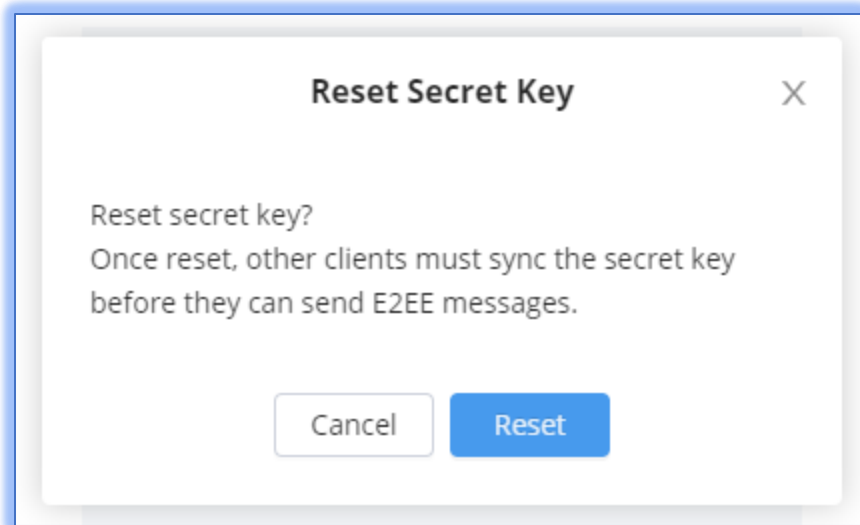
1. Before resetting the secret key, the user can export the most recent secret key they have and import it after reset. This will allow the user to decrypt and view previous E2EE chat history from different devices.
2. After resetting the secret key, other devices will need to sync this new key to start E2EE chats or to decrypt/view newly received E2EE messages on those devices.

To reset the key, open the E2EE chat settings. Click the  button at the upper right corner of the QR code and select **Reset secret key** option.



**Figure 28: E2EE Chat - Reset Secret Key**

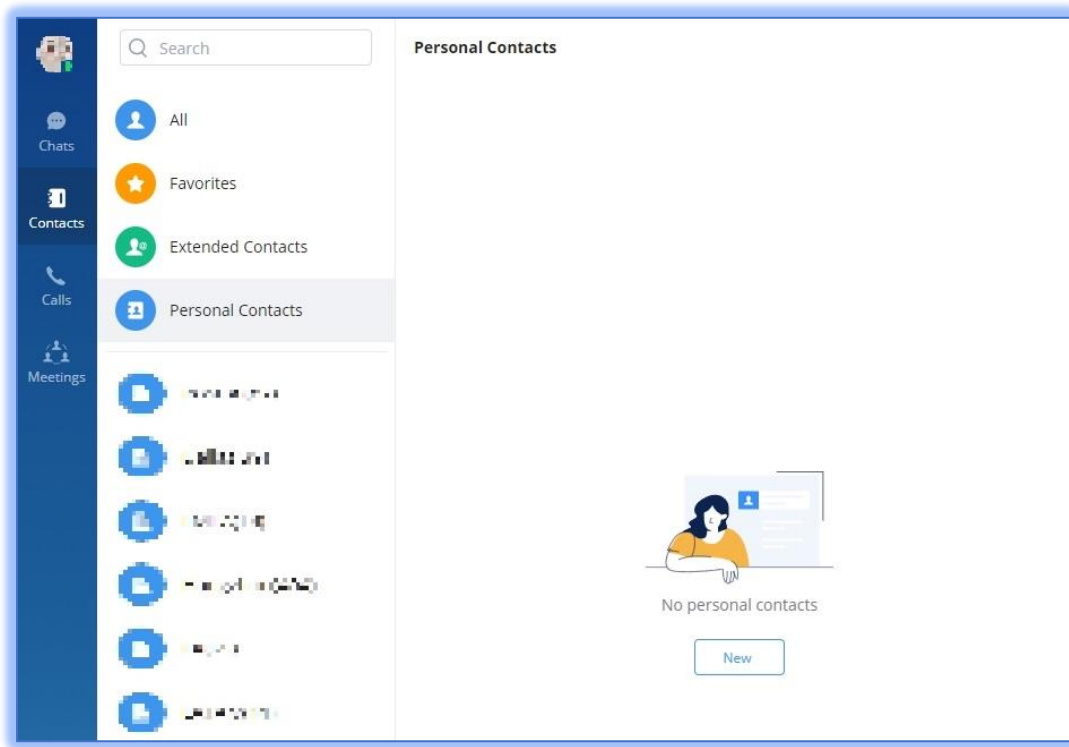
Click on the **Reset** button to finalize the reset.



## PERSONAL CONTACTS

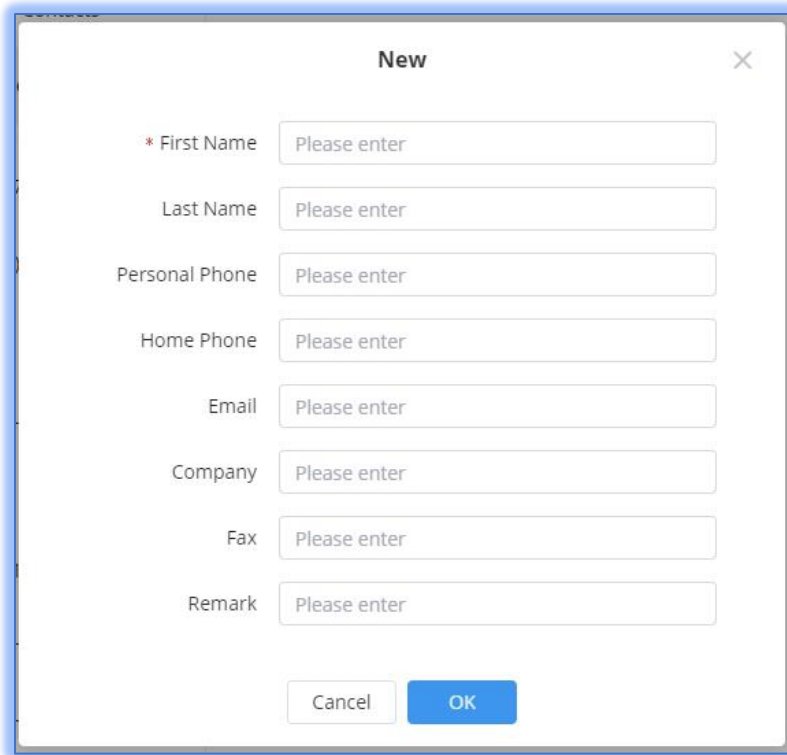
**Personal Contacts** is now available for users with paid UCM RemoteConnect plans. Users can add their own contacts to Wave convenient access and calling. To get started, navigate to the *Contacts* → *Personal*

*Contacts* page and click on the *New* button to add a contact.



**Figure 29 - Personal Contacts List**

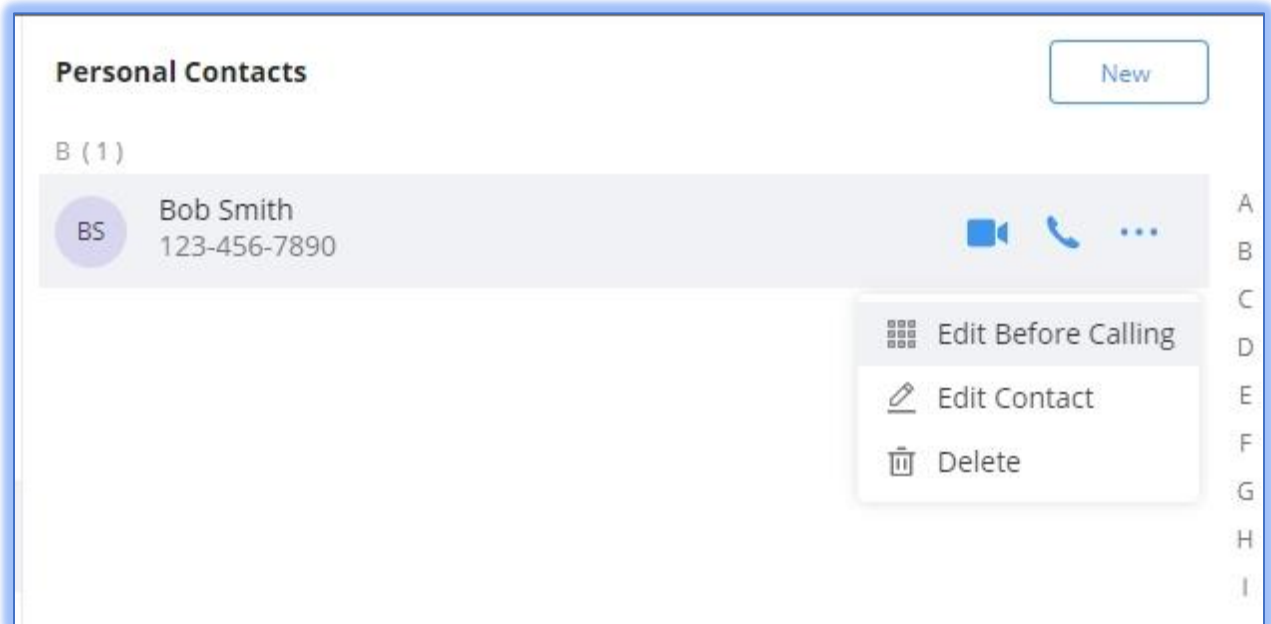




A screenshot of a 'New' contact form. The form has a title bar with 'New' and a close button. It contains several input fields: 'First Name' (marked with an asterisk), 'Last Name', 'Personal Phone', 'Home Phone', 'Email', 'Company', 'Fax', and 'Remark'. Each field has a placeholder text 'Please enter'. At the bottom, there are 'Cancel' and 'OK' buttons.

**Figure 30 - New Personal Contact**

Users can then enter their contact details. Once a contact has been added, the contact will be displayed as such:



A screenshot of the 'Personal Contacts' interface. At the top right is a 'New' button. Below the title, it says 'B (1)'. A contact entry for 'Bob Smith' with phone number '123-456-7890' is shown. To the left of the name is a circular icon with 'BS'. To the right of the name are icons for video call, voice call, and a menu. The menu is open, showing three options: 'Edit Before Calling' (with a grid icon), 'Edit Contact' (with a pencil icon), and 'Delete' (with a trash icon). On the far right, there is a vertical alphabetical index from A to I.

**Figure 31: Personal Contact Options**

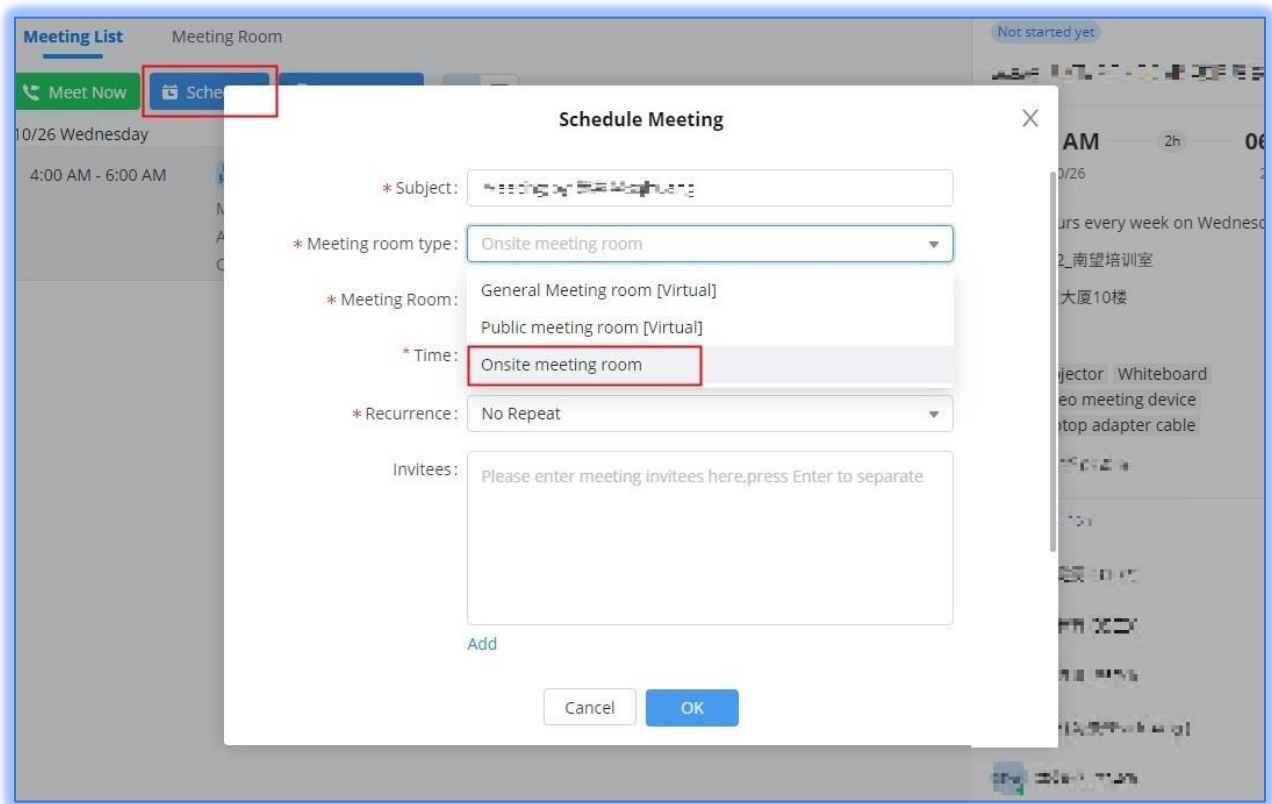
The user can click the “Add” button to add personal contacts. The user can also edit or delete the personal contacts, and also dial to the personal contacts. The user can also invite the personal contacts to the meeting.

## ONSITE MEETINGS

UCM6300 1.0.19.8 introduces the **Onsite Meeting** feature, a way to stay organized and keep up-to-date with in-person meetings. To use this feature, the UCM administrator will need to have created an onsite meeting room in the UCM management portal. Wave can be used to schedule, manage, and cancel meetings.

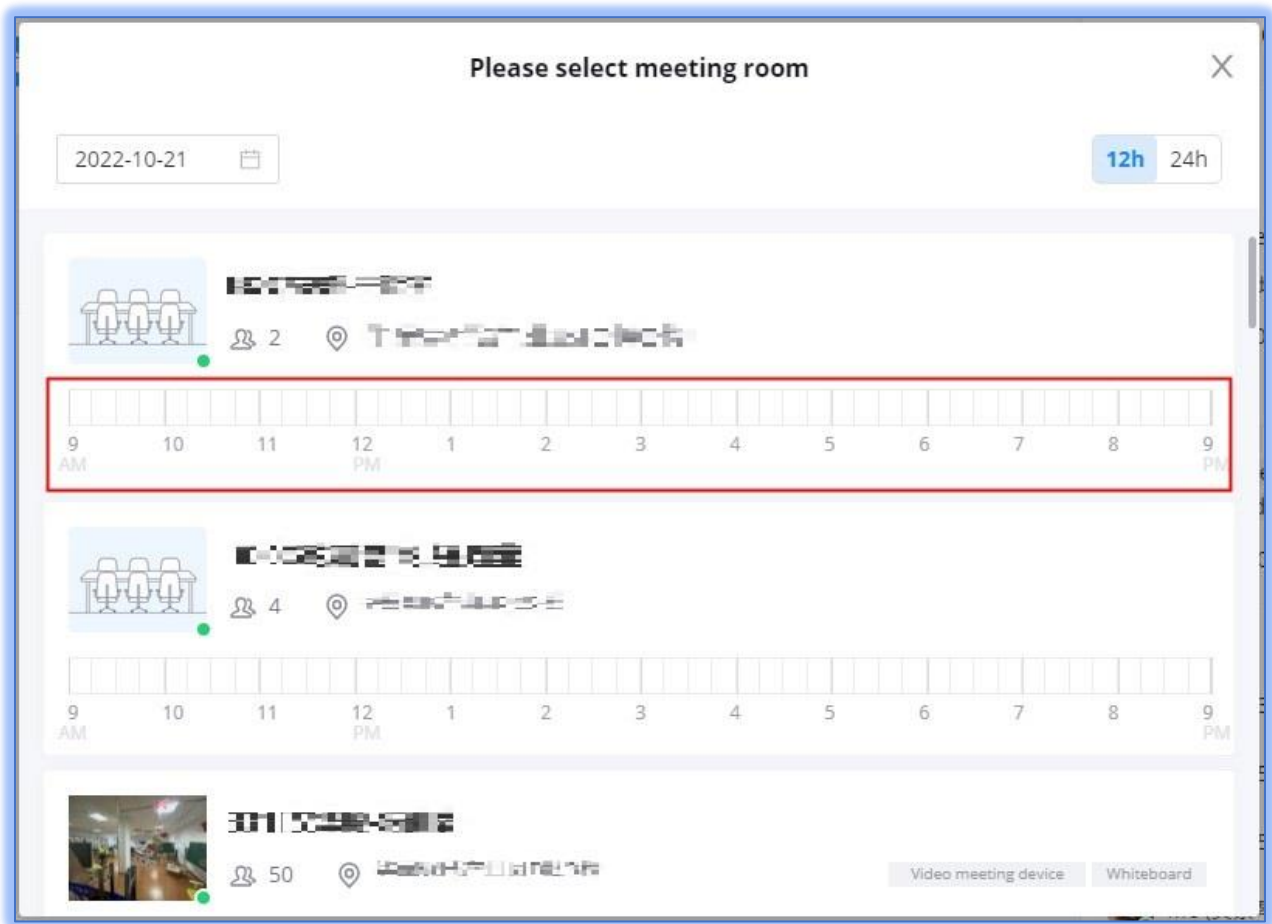
**There are two methods to schedule an onsite meeting:**

Method 1: Users can navigate to the *Meetings*→*Meeting List* page and click on the **Schedule** button. On the *Schedule Meeting* page, select **Onsite meeting room** as the meeting room type.



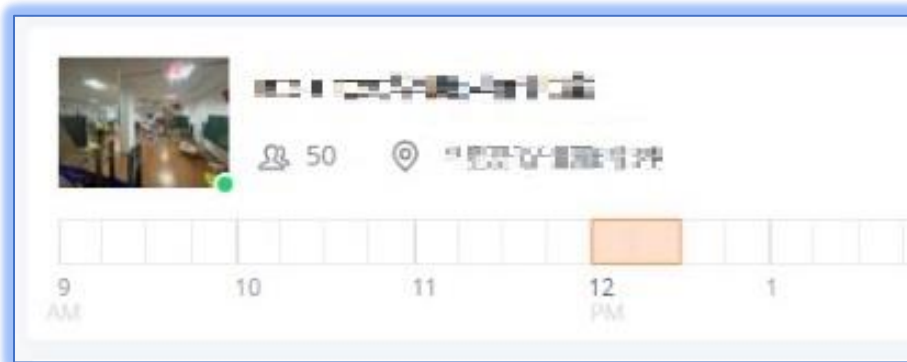
**Figure 32: Onsite Meeting Room - Method 1**

Users can then select the onsite meeting room and reserve the time period for the meeting, similar to scheduling an online meeting.



**Figure 33: Onsite Meeting Room - Select Duration**

Method 2: On the *Meeting Room* tab, users can see all available onsite meeting rooms and schedule meetings for specific rooms. If a time block has already been occupied, it will be highlighted as such:

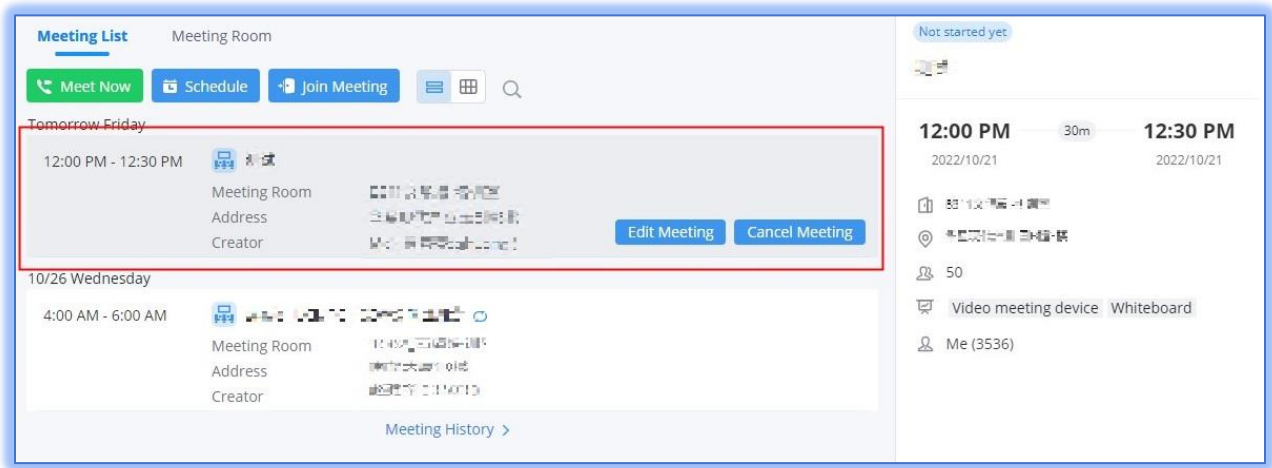


**Figure 34: Onsite Meeting Room - Method 2**

**Note:** Only users with email addresses or company contacts can be invited. Unknown numbers cannot be

invited. Invitees will receive the meeting reminder email notifications and meeting assistant notifications, if applicable.

Once an onsite meeting has been scheduled successfully, it will be displayed under the *Meeting List* page. Clicking on a meeting will display its details on the right side of the Wave window.



**Figure 35: Scheduled Onsite Meetings**

Once a scheduled meeting starts, the meeting status will be updated to “In process” automatically, and users will no longer be able to edit the meeting details.