tiger

Tigermeeting Admin

User manual

Version 3.3.6

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Network configuration

IMPORTANT

Tigermeeting application is based on a distributed database architecture and unique, high watermark synchronization technology that works without an on premises central or any external cloud database but requires flowless communication between the devices on the local network that sets certain network requirements.

NETWORK REQUIREMENTS:

- **Broadcast requests need to be enabled** on and across the network segments (desired even over VPN if remote administration is used)
- UDP ports: 6024, 6025, 6030 and 6031 need to be enabled on the network segment.
- The admin->device, device->device, device->admin communication require the **TCP ports 6026** and **8080** to be enabled on the network.
- If an external online calendar is used, like Google Workspace, Microsoft365 or external URLs for iCal files communication towards those resources need to be allowed through the firewall.
- Open communication towards the Tigermeeting Cloud tigermeeting.app via
 TCP port 443 is required only for the following functionalities:
 - Admin app: admin login
 - Admin app: forgotten password reset
 - Admin app: analytics
 - devices' periodic license validations
 - devices' event logging (if the analytics feature is enabled)
 - both Admin and devices: theme configuration and background updates
 - both Admin and devices: new software upgrade check
 - both Admin and devices: new firmware upgrade check

For more information see the GDPR statement.

If the network requirements are not satisfied, the Tigermeeting applications may not functional properly, leading most often to:

- "Network communication error" during Admin login
- Devices are not detected on the network during auto discovery in Admin app.
- Devices are not able to change to the chosen theme.



Introduction

The Tigermeeting solution is one of the most advanced meeting room management products on the market, since 2018.

How could we achieve this? The answer is simple: We listen to our customers.

We own the technology. We know the industry. We are passionate about what we do. We consider customer needs. We adjust our product and service roadmap accordingly.

We see that our product is able to provide great and affordable service for schools, universities, offices and organizations with simple, functional, efficient and reliable meeting room management solution - that is already highly appreciated worldwide.

Key features

The product features are carefully crafted to perfection and driven by genuine aim to provide an innovative and affordable meeting room management product with unique and original design - closing the gap between the huge market demand and the expensive, high-end competition.

- **Central management** no need for time wasting visits to every device. All configuration, settings and updates can be pushed out to the devices centrally via the Admin app.
- **Simplicity** we had the user experience as the highest focus for the front end design. The easier it is to navigate, the more it will be used.
- **Flexibility** use the same solution in different or mixed environments. In the offices book meeting rooms; in schools show classrooms' timetables; somewhere else book tables, desks or cabinets if needed. Freely use different devices that fit best the given environment and purpose.
- **Security** the solution runs on unique high watermark distributed database technology that does not need external datastore. All data stays within the organization's LAN.
- **Automation** one of our unique key features. Your users will always be able to find the available rooms. Book meetings in your online calendar or directly on the screen.
- Localization use your own language on the screens we support more than 40 languages and a new one can be easily added on request without software upgrades.



- **Compatibility** in todays interconnected World, the customers' infrastructure needs to be respected therefore we support all major calendar applications Exchange Server, Microsoft 365, Google Workspace, Google Calendar and iCalendar fitting easily into the most networked room booking ecosystems.
- **Analytics** provides glimpse over the company's meeting culture, people's habit as well the hardware usage and health.
- **Customization** change the look and feel of the screen. Make it own. Make the screens fit into your office environment with logo and background changes in all themes.
- Unique features every meeting room booking system on the market does the job - the difference is in innovative, unique features where Tigermeeting makes the competitive edge.
- Free updates as the product evolves, new features are added, bugs are fixed all customers are eligible to upgrade their environments to the latest product releases with perpetual licensing model. This means lifetime effortless updates and product support.
- **Total cost of ownership** with Tigermeeting's perpetual licensing model and pricing strategy, the Tigermeeting suite became one of the most cost effective meeting room solutions on the market with the lowest TCO.



Tigermeeting products

Tigermeeting Booking screen

This product is designed to run on Android devices with screen sizes between 6" to 15", placed on a wall in front of the meeting rooms, classrooms, conference halls etc, showing the rooms' name, ongoing meeting status, meeting information, future meetings' schedule, running company videos and provide direct - on-screen meeting booking functionality synced with the attached corporate online calendars. The same runs on micro devices with screen sizes 3-6" attached to office desks or school cabinets showing the resource availability and providing on-screen booking functionality.

It acts like fire alarm in case of emergency.



The booking screen appearance is easily customized by applying different themes via the Admin App



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Tigermeeting Overview screen

This product is designed to provide real time, comprehensive overview of the meeting rooms' statuses over the whole company - most often used on huge, Android operating system powered screens placed in public spaces.

It shows the meeting rooms' name, schedule, and status on an intuitive timeline - also it presents the rooms' size and the relative position from the screen.

The overview screens are also part of the unique fire alarm feature.



Tigermeeting Admin App

The Admin app is a multi-platform, web-based management application that configures, updates and manages the whole Tigermeeting infrastructure on an easy, intuitive, efficient and secure way.

This tool is also used for troubleshooting, network backup/restore maintenance, fetching the logs and presenting useful analytics data that could be exported to any external BI tool.

The Admin app is a node.js, platform independent application that has installers provided for Windows, MacOS and Linux operating systems.

This document elaborates this product in detail.



What is the Admin App's purpose?

For the best uptime and security, Tigermeeting applications' operation is based on a distributed database architecture and unique, high watermark synchronization technology.

This means that every device is up to date with the latest information and are not dependent on any centralized data store, external cloud environment or eventual local downtime in order to show the correct information to the users.



...even the Admin app - the central management console does not store any data on the Admin's local computer. Instead - when started - the Admin app becomes an organic part of the distributed database that is constantly shared between the booking and overview screens across the local network segment.

To make it clear what the Admin app does - it basically:

- discovers the devices on the network
- fetches the devices' configuration
- alters the configuration
- pushes back the new configuration to the devices

The devices will continue to work fully independently until the next Admin configuration session (that may or may not occur in the future).

Therefore, there is no requirement for a constantly running Admin app on a server - and the Admin app does not store any information, and there is no need for any external cloud server either.

At Tigermeeting - we believe this technology is the best, self-sustaining solution for an independent, modular application ecosystem.



How to start? Where to begin?

The journey starts with a request to create a demo licence or with a purchased licence that can be done via the home page https://tigermeeting.app/en/contact or sending a mail to **info@tigermeeting.app**

In order to proceed, Tigermeeting requires the following information:

- Company name the entity that will hold the licences
- Admin user's name used just for the e-mail communication personalization.
- Admin user's email address used for the authentication in the Admin app

Once the company with the requested licences is created – the Admin user will get an email with the instruction, what to do and how to start using the Tigermeting application. Please, make sure to check the spam or promotion folder if this mail has not arrived to your inbox.

The mail with the instructions will look something like this example:





Welcome to **Tigermeeting** - your affordable, high-end calendar solution with perpetual licence model.

This is the very beginning of your company's meeting enhancement process that will bring your meeting experience to a new level.

The Tigermeeting solution is one of the most advanced meeting room management products on the market.

To start - please, follow the easy steps listed below:

1. Download the Admin App from https://tigermeeting.app/en/downloads

2. Install and start the Admin application (allow network access through the firewalls if asked by the system)

3. Use the following credentials to login into the Tigermeeting Admin App.

Please note, your admin account is already created. You can login directly - no need to Register.

Your unique Company code is used during the registration of an additional Admin user - but, please keep this information confidential as new registrations will share your license pool.

4. Download the Tigermeeting Android APK from the Admin App

5. Install the APK on your android devices (via USB, Bluetooth transfer... or if available on the device via Google Play, Amazon Appstore, HUAWEI AppGallery or SAMSUNG Galaxy Store for devices with Android versions 5.0 or higher)

6. On your Android devices switch off the mobile network and turn on the Wi-Fi or Ethernet.

7. If your devices that run Tigermeeting APK and the Admin App are both on the same network segment, the devices will be automatically discovered.

8. Distribute the licences among your devices.

9. Configure your calendar, theme, language and devices behaviour via the Tigermeeting Admin App

For the smooth start, read the manuals published at https://tigermeeting.app/en/downloads

First Name: {{first_name}} Last Name: {{last_name}} Email: {{email}} Password: {{password}}

In case you want to share your licenses or let an another admin





That's all.

The Admin user just needs to follow the instructions.

It is not more complicated than that.

Tigermeeting is intentionally kept very simple, easily comprehensible, and very intuitive from the user perspective. Hiding the complex and advanced technology behind a user-friendly surface has been proven to be the key for the widely acceptable design and for a successful business strategy worldwide.

There will be challenges for sure, but the purpose of this manual is to guide the admin user through most of the obstacles on an easy, not too technical but rather using a human narrative tone.

The Tigermeeting customer support is also always available to help you shine up your meeting rooms and classrooms.



Tigermeeting Admin Installation

The Tigermeeting Admin Application is a multiplatform, web-based management application that configures, updates, and manages the whole Tigermeeting infrastructure in an easy, intuitive, efficient and secure way. Installers are available for Windows, MacOS and Linux platforms.

Installing Tigermeeting admin on Windows

Follow the installation steps:

- □ Go to the Tigermeeting website: https://tigermeeting.app/en/downloads
- □ Download the Tigermeeting admin application.

🚹 Run the installer as administrator.



2 Tigermeeting Admin is a signed application – but in case it is denied, please allow installation of the unrecognized application.





2	Windows protected your PC Windows SmartScreen prevented an unrecognised application from starting. Running this application m put your PC at risk. Publisher: Unknown Publisher Application: Tigermeetingroom Setup 1.1.1.exe Run anyway	night
	Image: Second system User Account Control Image: Second system Do you want to allow the following program from an unknown publisher to make changes to this computer? Image: Program name: Tigermeetingroom Setup 1.1.1.exe Publisher: Unknown File origin: Hard drive on this computer	
2	Change when these notifications appear	

3 Continue the installation for the selected user or users and press the "Next" button.





4 Select the desired install location and press the "Install" button.

	Tigermeetingroom Setup – 🗆 🗙	
	Choose Install Location Choose the folder in which to install Tigermeetingroom.	
	Setup will install Tigermeetingroom in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.	
4	Destination Folder C:\Program Files\Tigermeetingroom Browse	
4	Tigermeetingroom 1.1.1 Cancel]

5 If the "Run Tigermeetingroom" is checked, after the install the Tigermeeting Admin application is opened. Finish the installation wizard. Allow the Tigermeeting admin application to make charges on the)





Allow the virus scan to finish or abort the scan.

	AVG. 🛞
	Hang on, this file may contain something bad.
	C:\Users\User\AppData\Local\Programs\ Tigermeetingroom\Tigermeetingroom.exe
7	We're running a quick 15 second scan to see if we can identify any malware

NOTE: Tigermeeting is a signed application with a validated certificate. Please, accept certificates from both Tigermeeting AB and Zoda Software AB (the former organization name)

	× 📓 Tigermeetingroom Setup – 🗆 X
Windows protected your PC Microsoft Defender SmartScreen prevented an unrecognised app from	License Agreement Please review the license terms before installing Tigermeetingroom.
starting. Running this app might put your PC at risk. Application: Tigermeeting-admin-3.3.3.exe SE Stockholms I.o.n. Zoda Software AB. Zoda	Press Page Down to see the rest of the agreement.
Publisher: Software AB	1. Terms By accessing the website at <u>https://tigermeeting.app</u> and using the Tigermeeting (r) suite applications, you are agreeing to be bound by these terms of service, all applicable laws and regulations, and agree that you are responsible for compliance with any applicable local laws. If you do not agree with any of these terms, you are prohibited from using or accessing this site and software. The materials contained in this website are protected by applicable copyright and trademark law.
	If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Tigermeetingroom.
Run anyway Don't ru	n Igermeetingroom 3,3,3

Please read and accept the License Agreement before use.

Instructional video:

https://www.youtube.com/watch?v=sB8ea-VrYz8



Installing Tigermeeting admin on Linux

Tigermeeting Admin Application installer is available in three formats for Linux operating systems:

- RPM Redhat Package Manager for RedHat, Fedora, SuSE and others.
- DEB Debian software package for Debian, Ubuntu, Kali and others
- AppImage portable software package for Linux that contains the application and everything it needs to run on different Linux distributions.

RPM

Open a terminal and navigate to the location of the .rpm file. Execute the following command with superuser permissions:

\$sudo rpm -ivh filename.rpm

Start the application from the desktop or from command line:

\$/usr/bin/tigermeetingroom

DEB

Open a terminal and navigate to the location of the .deb file.

Execute the following command with superuser permissions:

\$sudo dpkg -i package_file.deb

Start the application from the desktop or from command line:

\$/usr/bin/tigermeetingroom

AppImage

Open a terminal and navigate to the location of the AppImage file. Make the AppImage file executable with the **chmod** +**x filename** command.

Execute the AppImage executable with the ./filename command.

NOTE: The Tigermeeting Admin App is a graphical application. The installation can be done from the terminal/command line, but for the execution it requires a functional X windows environment.



Installing Tigermeeting admin application on MacOS

Follow the installation steps:

Go to the Tigermeeting web site https://tigermeeting.app/en/downloads Download the Tigermeeting admin application.

 Run installer and after the verification drag and drop "Tigermeetingroom" to "Applications".

	● ○ ○ Ø Ø Tiger-admin-1.1.1
1	Tigermeetingroom
?	"Tigermeetingroom" is an application downloaded from the Internet. Are you sure you want to open it? Google Chrome downloaded this file today at 2:55 PM from tigermeeting.app. Show Web Page Cancel Open 2

2 Run the Tigermeeting admin application. Change security settings if needed in some rare cases (the application is signed by Tigermeeting AB – verified Apple developer)

0	Security & Privacy		
▶ Show All		٩	
	General FileVault Firewall	Privacy	
A login passwor	d has been set for this user Chang	ge Password	
🗌 Require	assword immediately \$ after sl	eep or screen saver begins	
Show a n	nessage when the screen is locked	Set Lock Message	
🗹 Disable a	utomatic login		
Allow apps dow	nloaded from:		
🔿 Mac App	Store		
O Mac App	Store and identified developers		
() Anywher	e		
Click the lock to make	changes	Advanced	

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NOTE: Installer splash images may change between the releases. Please, drag the Tiger icon to the Applications folder to install the Admin App. It is recommended to overwrite the application if it already exists (upgrade case).



Please, accept the term of use before the installation.



Replace the Application if you have any older versions.





Instructional video:

https://www.youtube.com/watch?v=MvmDbgB7dnk



Login

Only registered users can use the Tigermeeting admin application. The user can login with the correct email address and password.



The login form has three main components:



NOTE: The initial Admin account is created by the Tigermeeting Customer service and the credentials are sent out by e-mail to the Administrators. There is no need for registration. Please login directly



User registration

Tigermeeting admin registration can be done with the shared "Company code". This substitutes the admin user creation functionality by another, existing admin user.



The registration form has three main components:

Login and register: Switch between the user login and registration functions.
 User parameters: Every field is mandatory and must be filled out to finish the registration.

Company code: The company code determines the number of licenses, that can be distributed between the devices. The company code will be sent by email. Password: The user's password must contain a minimum of 8 characters.

3 Register: When all the fields are filled with valid data, the registration can be finished.

NOTE: Your unique Company code is used during the registration of an additional Admin user - but, please keep this information confidential as new registrations will share your licence pool.



Menu structure



The main functions of the admin application are sorted under 3 main categories:

- 1 Logo: When clicked on logo, browser is opened and redirected to "https://tigermeeting.app/"
- 2 Network: Devices status can be monitored, and the parameters modified.
- 3 Settings: License, calendar attachment, detachment, room management, and admin user settings can be modified.
- Analytics: Device analytics can be loaded for booking devices, overview devices, admin, and company.
- 5 Admin logs: User events are recorded and displayed, like login, logout, device synchronization etc.
- 6 Wizard: The user is guided by a step-by-step wizard, that helps the user to configure the devices. (it is used mainly when the admin application is used first time)
- About: Information about the Tigermeeting admin application, privacy policy, terms of service, cookie policy, open-source licenses.



Network

In the network panel, the devices' state can be monitored, room and license attachment, detachment and other important parameters can be edited. The network is constantly scanned for devices.

Netw	rork						0	<u>ئا</u> د
	FREE DEVICES	CONNECTED DISCONNE	CTED		FGRADE ANDROID APPLICATIONS	SYNCHROND	ZE CHANGES AD	
 Show 5	entries ROOM	IP / MAG ADDRESS	STATUS	SOFTWARE VERSION	FIRMWARE VERSION	LIGENSE TYPE	DEVIGE UPTIME	AGT
	No roomlist	IP: 192.168.1.8 MAC: 18:65:71:7E:2F:EF		1.3.0	FB03.04 release-keys	LICENSED	0d 1h 57m	
4	Not assigned	IP: 192.168.250.217 MAC: 47:66:41:03:89:47	DISCONNECTED	1.5.0	FB03.09.23	LICENSED	0d 3h 39m	ø
 4	Blue room	IP: 192.168.150.175 MAC: 3A:74:7D:C1:97:3A	DISCONNECTED	1.5.0	FB03.09.23	No license	0d 3h 16m	
4	Not assigned	IP: 192.168.150.119 MAD: D6:49:78:82:B2:D6	DISCONNECTED	1.5.0	FB03.09.23	No license	0d 3h 35m	ø
	Not assigned	IP: 192.168.250.213 MAC: EF:24:67:3F:FD:EF	CONNECTED	1.4.8	KTU84Q.FB03.05.16	LICENSED	0d 3h 28m	
 • 5 total								

Network features:

User settings:

Current user: Currently logged in user's email address.

- User settings: Opens current logged in users' data to edit. (redirected to: Settings, admin users, edit user)
- Logout: End session, and logout from the Tigermeeting admin application. The user will be logged out automatically after 5 minutes of inactivity.

2 System settings:

- Version number: Current version of the Tigermeeting admin application.
- Set device logo: Logo can be uploaded to the Tigermeeting admin application, after the synchronization, the uploaded logo (120x60px) is used on the connected devices. (up left corner on the android)
- Download admin log: Export the Tigermeeting admin application's log.
 Used for error tracking.

Reset network: Reset the admin application and all connected devices to the default settings. Calendar, rooms, room lists are detached device settings returned to default. (booking devices, overview devices, admin application) Backup network: Backup booking,



overview devices (attached rooms, device settings, etc.) and Tigermeeting admin application settings (online calendar, rooms, etc.). There are two options to backup network settings:

- 1 Save backup online.
- Save backup to a file.
- 2 Restore network: Restore backed up settings for booking and overview devices (attached rooms, device settings, etc.), also for the

Tigermeeting admin application (online calendar, rooms, etc.).

- **3** Restore from online backup.
 - Restore from a saved backup file.



- 3 Download android app: Download the Tigermeeting android application's APK file (4+ or 5+ Android booking or overview device) or office and exchange setup scripts to the desired destination. Also new admin updates can be downloaded here.
- Fire alarm: To activate the fire alarm press and hold the "Activate" button (for 3 sec.). After the activation (synchronization) all devices (booking and overview screen) flash and play fire alarm sound.



5 Add device: Add device with IP address not discovered by the Tigermeeting admin application. It is used when a device is in another subnetwork.

6 Synchronize changes: When a device's properties are changed (room, license attached or detached, parameter changed (capacity, room info, open time, etc.)) it must be synchronized to all the devices to take its effect. When all devices are disconnected, synchronization is not allowed.

7 Update devices: Update all connected devices software

8 version.

Device filter:



- All: All devices are listed without filtering.
 Freedevices: Devices without rooms are listed.
 - Connected: Devices with status of 'connected' are listed.
- Disconnected: Devices with status of 'disconnected' are listed.
- 9 Number of devices: The number of devices displayed per page.
- Discovered devices: All devices are displayed when they are detected on the network. The network is scanned every 30 seconds.
 - The number () indicates the version of the android operating system.
- Total number of devices: Total number of devices filtered by device filter. (all, free, connected, disconnected)
- 12 Update software: Update selected device's software version.
- 🚯 Update selected device's firmware: Update device's firmware. It takes
- several minutes, when updating the firmware do not turn off the device.
- 14 Actions:
 - Device properties: Edit the selected device's properties.
 - Restart device: Reboot the selected device.
 - Download log: Export devices log into a .json file. Only visible when a device is connected. Used for error tracking.
 - View screenshot: A screenshot is taken from the device.
 - Remove device: Remove disconnected device from the admin application. Only visible when a device is disconnected.

NOTE: "Add device" feature is needed in all those cases when the broadcast is not allowed through the firewall or between the network segments that cause network discovery failure.

The remote admin user operation is one of the typical cases when the administrative tasks are performed over the VPN connection, remotely, and the discovery of the devices usually fails - with standard VPN settings.

The solution is to use the "Add device" feature with a known device's IP address aiding the network discovery. Accessing one device by IP address allows access to the shared network database that will discover all the devices allowing full remote management of the Tigermeeting infrastructure.

t	Network						<u>ځ</u>	\$	•
747	ALL FREE DEVICES	CONNECTED DISCONNECTED							
4	Show 10 entries			×	UPGRAD	E ANDROID APPLICATIONS	ADD	DEVICE	⊢
~	DEVICE © ROOM	IP / MAC ADDRE	Add device by IP addres	ERSION C	FIRMWARE VERSION 0	DEVICE UPTIME 0		ACTIO	INS
E	NewYork	IP: 192.168.88			MMB29M.A300FUXXU1CQJ3	1d 13h 28m	1	¢ :	
I	No roomlist	IP: 192.168.88 MAC: 18:65:71	ADD DEVICE		FB04.04	38d 20h 47m	1	e :	
7	Madrid	IP: 192.168.88.253 MAC: AA:BA:21:57:73:E2	CONNECTED	3.5.1-426	10BDL_3368 release-keys	10d 11h 25m	đ	P :	



Booking device properties: Before room attachment



Device properties:

- 1 Device's room: Name of the currently attached room.
- Booking device info: The selected device's IP and MAC address is displayed. 2 License status: Type of the license attached to the selected device. (no license or licensed (only booking screen license can be attached))
- Detach license: Detach the current license. After the detachment the selected device is returned to 'no license'. Detached license can be attached 5 again.
- Device status: Status of the selected device. (connected or 6
 - disconnected) Software version: The selected device's current version is displayed.
 - Firmware version: The selected device's current firmware version is displayed. Create new room: When a device has no license, rooms cannot be attached to the selected device. When the new room's name is added after the attachment, () the rooms is created and attached to the selected device.



8

- Attachable rooms list: If there are rooms created previously it can be selected (from the list) and attached to the selected device.
- 🔟 Close: Cancel action, all parameters are reset to the previous
- 🚹 state. Attach room: Attach the room to the selected device.



Booking device properties: After room attachment

A device's properties can be divided into basic, booking, and advanced properties.

Basic properties



Basic properties:

1 Device's room: Name of the currently attached room.

Original room name is displayed, when there is no room alias added under "Settings" menu, "Rooms" tab, edit room properties, "display name". When an alias is added, it is displayed instead of the original name.

2 Edit attached room's name: Attached room's name can be edited. When the settings are saved the name is changed. The room's name can be edited only when local or Google calendar is attached. The name of the imported



rooms cannot be edited in the Tigermeeting admin application, (Microsoft365, Exchange, Google Workspace) only in the online calendar's admin panel.

- 3 Device info: The selected device's IP and MAC address is displayed.
- License status: Type of the license currently attached to the selected device. (no license or licensed (only booking screen license can be attached))
- Detach license: Detach the current license. After the detachment the selected device is returned to 'no license'. Detached license can be attached
 again.
- Device status: Status of the selected device. (connected or
- 👩 disconnected) Software version: The selected device's current
- version is displayed.
 - Firmware version: The selected device's current firmware version is displayed. Detach room: Detach the currently attached room from the selected device. When a room is detached, after the synchronization the default 'conference room' is used.
- 10 Basic, booking, and advanced properties: When selected, the basic, booking and advanced parameters are displayed.
- 11 Basic parameters:
 - Clock display: Change device's clock display. (24h or 12h format).
 - Device language: Text on device will be displayed on the selected language. The default language is English.
 - Calendar service: It can be local or the attached online calendar. When an online calendar is attached, the device can only use online rooms. When there is no online calendar attached only local rooms can be used.
 - Capacity: Capacity of the attached room.
 - Room info: Room info is displayed on the device under "Available rooms". More info under "Settings, Rooms tab".
 - Display name: Alias is used, and it is displayed as room's name. When it is not added the room's original name is used instead.

12 Open time:

- Day: Device will take reservations for the selected
- days. Time: Device will take reservation between the set time.
- 13 Setting distribution:
 - Set for all devices: The checked parameters will be saved for all devices.
- 14 Close: Cancel action, all parameters are reset to the previous
- the dialog.





Booking properties



Booking properties:

- Enable booking from device: Public space mode. When it is turned on meetings can be booked from a device. Otherwise booking is not possible on the device. (only from online calendar if it is attached)
- Booking mode: Three booking modes are available.

Time picker duration step: Default duration for a meeting reservation. The time picker will be calibrated with the set value. (It can be 5, 10, 15

4 minutes)

Enable meeting cancel: When it is enabled, "cancel" button is displayed when a meeting is upcoming, when disabled "cancel" button is not displayed.

5 Enable meeting confirmation: Before the start of the meeting, confirmation is displayed for the upcoming meeting. When a meeting is confirmed, it will be approved. When it is canceled the upcoming meeting is removed. When it is turned off the confirmation button is not displayed, meeting is confirmed after time set.

(Time to confirm meeting before and after start

)).

6 Time to confirm meeting before and after start: When will be the confirm controls displayed, before and after the meeting start time.



Automatic confirmation after time: When the confirm meeting time is up (defined by point 6) upcoming meeting is confirmed or current meeting is confirmed

automatically. When "Enable meeting confirmation" is turned off this option is not displayed.

On an android device:



- Meeting can be canceled, and the meeting is removed from the attached room's calendar.
- When a meeting has been confirmed and it has begun:
 - Meeting can be canceled, and the meeting is not removed from the attached calendar's room, only the meeting end time is changed to the time when the meeting is canceled.



2 Booking mode on device:

From this moment: Meeting can be reserved from the current time, only on currentday.

	12.10.2019									
13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	
15:00	15:10	15:20	15:30	15:40	15:50	16:00	16:10	16:20	16:30	
16:40	16:50	17.00	17.10	17.20	17:30	17:40	17:50	18:00	18:10	

Any time today: Meeting can be reserved any time on the current day.

12.10.2019									
13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50
15:00	15:10	15:20	15:30	15:40	15:50	16:00	16:10	16:20	16:30
16:40	16:50	17.00	17:10	17:20	17:30	17:40	17:50	18:00	18:10

Anytime: Meeting can be reserved any time, any day in the future.

	< 12.10.2019 >									
13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	
15:00	15:10	15:20	15:30	15:40	15:50	16:00	16:10	16:20	16:30	
16:40	16:50	17.00	17:10	17.20	17:30	17.40	17:50	18.00	18-10	

Booking type is displayed on the bottom of the time
picker. Cancel: Cancel and return to main screen.
Book now: Confirm the meeting to the selected room.





Advanced properties



Advanced properties:

- 1 Device time zone: Selected device's time will be configured to the selected time zone, as well the meetings reserved on the device.
- 2 Display meeting title: If it is turned on, meeting title is displayed (if title is not added then it is replaced with text "Room busy"), when turned off meeting title is replaced with text "Room busy".
- 3 Display upcoming meeting: Time before the meeting is displayed as upcoming. (for example, it is set to 20 minutes, and a meeting begins in 14:00, it will be displayed as upcoming at 13:40)
- Enable video player: When enabled, additional video settings are available to set. (When a meeting is displayed as upcoming video playback is paused)

5 Video player timeout: Video is played on the device after the set timeout. 6 Video URL: Link to the video.

Video requirements: File type: MP4, maximum size: 200MB,

resolution:720p

Test video: When the button is pressed the video is displayed in the admin application in a popup window, it is for testing purposes.



On android device:



Overview screen properties

General properties

	DEVICE PROPERTIES		
	Overview screen		
		TPV 24BDL4151T 192.168.1.8 MAC: 1F:65:71:FF:2F:EF LICENSED	1
4		DETACH LICENSE	3
5 7	SOFTWARE VERSION 1.3.0 GENERAL ROOMS	FIRMWARE VERSION FB03.04 RELEASE-KEYS	6
	TIMELINE DURATION GREETING TEXT	4 hours Conference rooms	
8	Clock display	English 24h Google Calendar	
	C DEVICE TIMEZONE DISPLAY MEETING TITLE	Europe/Belgrade	
9	↓ titit Setting	gs distribution	
10	Close	Save settings	
General properties:

- Overview screen device info: The selected device's IP and MAC address is displayed.
- 2 License status: Type of the license currently attached to the selected device. (no license or licensed (only overview screen license can be attached))
- 3 Detach license: Detach the current license. After the detachment the selected device is returned to 'no license'. Detached license can be attached again.
- **4** Device status: Status of the selected device. (connected or
 - disconnected) Software version: The selected device's current version is displayed.
- Version is displayed.
 Firmware version: The selected device's current firmware version is displayed. General and rooms settings: When selected, the general or rooms parameters are displayed.
- 8 General parameters:
 - 1 Timeline duration: Timeline can be displayed in 4- or 8-hour sections. (For example, if it is set to 4-hour, timeline will be displayed
 - **2** from 09:00-13:00) Greeting text: Greeting text on the top of the timeline.

Device language: Text on device will be displayed in the selected language. The default language is English.

- Clock display: Change device's clock display. (24h or 12h format).
- Calendar service: It can be local or the attached online calendar. When an online calendar is attached, under "rooms" settings (). When there is no online calendar attached, only local rooms can be used.
- Device time zone: Overview screen device's time will be configured to the selected time zone, as well the meeting reservations.
- Display meeting title: If it is turned on, meeting title is displayed (if title is not added then it is replaced with text "Room busy"), when turned off meeting title is replaced with text "Room busy".

9 Setting distribution:

- Set for all devices: The checked parameters will be saved for all devices.
- 10 Close: Cancel action, all parameters are reset to the previous

state. Save settings: Save the device's parameters and close the dialog.



On the overview screen:



Room properties



Room properties:

- 1 Room list: Rooms are listed that are attached to the overview screen device.
- 2 Remove room: Selected room is removed from the room list.
- A Room: Previously created
- rooms (local or attached online calendar) can be attached to the room list. Add room: Add new room to the list.

On an overview screen:



6 A meeting list is displayed. When "display meeting title" is turned on meeting title is displayed, when it is turned off "Room busy" is displayed as meeting title.

Download android APKs from the Tigermeeting admin app

Tigermeeting Android APKs are compatible with most tablets, phones, and TV devices from Android 4.1 and higher both for the booking screens and the overview screens.

Two APKs are available for download from the Admin app:

APK that supports devices from Android 4.1 (4.x)

APK that supports devices from Android 5.0 to 14 (5+)

The Google play, Amazon Appstore, HUAWEI AppGallery and SAMSUNG Galaxy

Store releases are identical to the Android 5+ version APK, from the Admin App.

To install on a device, please click on the icon or scan the corresponding QR code.









tiger



Tigermeeting is recognized and certified on other app markets and application stores on phones and tablets for device manufacturers in China and India.

Accepted among OPPO developers therefore the Tigermeeting app is available in many far east countries for users of OPPO Store that provides download, and upgrade functionality.



The same is valid for VIVO devices where Tigermeeting is a member of VIVO developers community and it is approved on VIVO phones and tablets globally and with special permission in Hong Kong, Taiwan, Province of China, Australia, Bangladesh, India, Nepal, Sri Lanka, Myanmar, Indonesia, Cambodia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, Viet Nam, Ukraine, Pakistan, Saudi Arabia, Russian Federation, United Arab Emirates – and in other 175 countries.

vivo Developers



Tigermeeting is also recognized and approved on Xiaomi devices available on Xiaomi Official App market.

The Android APK installation is elaborated in detail in the Android setup manual. **NOTE:** The device is fully operational just when the green default theme appears.



Settings

The settings are divided into five sections:



- 1 Licenses tab: Licenses can be assigned to devices.
- 2 Calendars tab: Online calendars can be attached or detached.
- Rooms tab: Rooms can be created, removed, or edited.
- Admin users tab: Registered users are displayed.
- Analytics: The collected data will be used to present valuable information about the usage of the meeting rooms. On explicit request, all accumulated event logs can be requested or permanently deleted - complying with the GDPR, CCPA, LGPD and POPI regulations.

Licenses tab

Licenses can be managed in this section. The company code contains a defined number of licenses. These licenses can be distributed among the devices. One device can only have one license. A license defines a set of functions:

- □ No license: Devices with no license can use only the local calendar and cannot reserve meetings in other rooms this is a DEMO mode.
- Booking screen license: License can only be attached to the booking devices. The device can be used by any online calendar and can reserve meetings in other rooms if configured so.
- □ Overview screen license: License can only be attached to the overview devices. The device can use any online calendar.



			5
Cettings			లి చి భి ≛
LICENSES CALENDARS ROOMS	ADMIN USERS ANALYTICS		
	,	,	SYNCHRONIZE CHANGES
LICENSE TYPE	OWNER	COPIES	
Overview screen	Tiger	1/1	ALL USED UP
Booking screen	Tiger	6/10	DISTRIBUTE
		· · · · · ·	
1	2	3	4

Licenses tab:

1 License type: Type of the license that can be distributed among the devices. (Booking screen licenses can be attached only to booking devices, overview screen licenses can be attached only to overview screening devices.

2 Owner: Owner of the licenses.

- 3 Copies: Currently used licenses and total number of licenses.
 - First number: Number of licenses currently in use.
 - Second number: Total number of licenses.

4 Distribute license: Distribute licenses to the selected device or devices.

All used up: When all licenses are distributed.

Synchronize changes: When the licenses are distributed, it must be synced with the devices. When all devices are disconnected, synchronization is not allowed.



4 License distribution:

Device selection: Selected devices for license

o distribution. Activate: Activate license for the selected 3

devices.

Close: Cancel and close distribution.





Only one calendar can be attached at a time:

- Microsoft365 calendar: Provide a Microsoft enterprise account to synchronize meetings with. Room resources will be imported to the Tigermeeting system. Creating and modifying room resources will be possible only through Microsoft admin pages.
- Exchange calendar: Synchronize meetings with Microsoft Exchange Server. Room resources will be imported to the Tigermeeting system.
- 3 Google calendar: Setup the system using a Google account to synchronize meetings with. For each room created in this application, a corresponding calendar with the same name is created.
- Google Workspace calendar: Provide a Google admin account to synchronize meetings with. Room resources will be imported to the Tigermeeting system. Create and modify room resources through the Google admin pages.



tiger

Beside the online calendars Tigermeeting has support for iCalendar and Local Calendar.

iCalendar: expose via a web server (http or https protocols) a pre generated iCal file in a format that complies to the RFC 5545 specification, and it is not larger than 10Mb.

These files will be treated as a room resource as long as they are available. Replacing the files is allowed as long as the URLs do not change.

Local Calendar: is the default configuration when no other calendar is set. The booking devices synchronize meetings only between each other by booking on the screen – this is mainly for DEMO purposes. Please use other calendars in production. .(Google Calendar with a personal account would be the simplest)



When a calendar is selected for attachment:

- 5 User parameters:
 - Microsoft365 parameters: Username and password must be added, after the room list is selected (for more information about room lists read section "Configuring Microsoft365 calendar") the attachment process can be finished.
 - Exchange parameters: username, password, exchange server URL and server version must be added, after the room list is selected (for more information about room lists read section "Configuring Exchange calendar") the attachment process can be finished.
 - Google and Google Workspace parameters: After registering the calendar account the attachment process can be finished.

6 Confirm controls:

- Cancel: Cancel the attachment
- process. Submit: Finish the
 - attachment process.



After calendar attachment:

- 7 Calendar type: Type of the attached calendar.
- 8 Email: Email address of the attached calendars
- 🧿 user.

Synchronize changes: After the attachment, the changes must be synchronized with the devices. When all devices are disconnected, synchronization is not allowed.

Reimport rooms: Rooms and their parameters can be reimported to the Tigermeeting admin application. It is used when rooms are created, removed or its parameters changed (floor, capacity) via calendar's admin interface. It is available when Microsoft365, Exchange or Google
 Workspace calendars are attached.

Reset account: Detached the selected online calendar. After the detachment the changes will be synchronized automatically.



Link to the instructional video how to attach Google Workspace calendar to the Tigermeeting admin application: https://www.youtube.com/watch?v=j1cN9OaIDwU



Rooms tab

Rooms can be created, removed, and their properties can be edited. Only one room can be attached to a device at a time.



Rooms tab:

- 1 Add new room: Create a new room. New rooms can be created when no calendar or Google calendar is attached to the Tigermeeting admin application.
- 2 Synchronize changes: After a room is created or its properties changed, the changes must be synchronized with the devices. When all devices are disconnected, synchronization is not allowed.
- 3 Number of rooms: The number of rooms displayed per page.
- A List of rooms: List of created or synchronized online calendar rooms.
- 5 Total number of devices: Total number of devices filtered by device filter. (all, free, connected, disconnected)
- 6 Paging: If there are more rooms, they are displayed on other pages. Actions:
 - Remove room: Remove the selected room from the admin application. Rooms cannot be removed when Microsoft365, Exchange or Google Workspace calendar is attached. Only local and Google rooms can be removed.
 - Edit room: Edit room properties.



Creating rooms if there is no online calendar attached:

□ If there is no online calendar attached (local calendar is used), rooms can be created, removed, and edited without restrictions.

 $Creating \ rooms \ if \ Google \ calendar \ is \ attached:$

□ When a room is created, it is checked if the room already exists on Google calendar. If it exists, it is synchronized with the calendar's room. If not, then it is automatically created, and it is created on the attached Google calendar as well. When a room is removed, it can be removed from the admin only, or from the calendar and from the admin.

Room management when Microsoft365, Exchange or Google Workspace calendars are attached:

□ When there are previously defined rooms, and Microsoft365, Exchange or Google Workspace calendar is attached, the previously defined rooms are removed, and the online calendar's rooms are synchronized and created in the admin application.

Edit room's properties:

- Room's name: A room's name can be edited only when local or Google calendar is attached. The name of the imported rooms cannot be edited in the Tigermeeting admin application, (Microsoft365, Exchange, Google Workspace) only through the online calendar's admin panel.
- Capacity: Parameter is fetched from Microsoft365, Exchange or Google
- □ Workspace. Room info: Parameter can be edited in all calendars.
- Display name: Parameter can be edited when local, Microsoft365, Exchange, Google calendar, is attached.
- 1 Add new room:
 - Close: Close the 'Add room' popup window.
 - Name of the room: Name of the new room.
 - Create: Create a new room. Rooms with the same names are not allowed.



7 Edit room properties:

- 1 Name of the room: Name of the selected room.
 - Edit name: Room's name can be edited. The room's name can be edited only when Local or the Google calendar is attached. The name of the imported rooms cannot be edited in the Tigermeeting admin application, (Microsoft365, Exchange, Google Workspace) only in the online calendar's admin panel.
- 3 Capacity: Capacity of the selected room.
- A Info: Room info is displayed under the room's name.
- 5 Display name: Alias is used, and it is displayed as room's name. When it is notadded the room's original name is used instead.
- 6 Time: Device is available between the set time. (for example, between 06:00 and 17:00)
- Days: Checked days are available and reservations can be booked from a device. (for example, on workdays reservations are available, on Saturday and Sunday the room is closed, and no reservations can be made)
- 8 Close: Cancel and close room properties.
- Save settings: Save room properties. After it is saved, it must be synchronized with the other devices.



On android device:



Admin users tab

All users of the Tigermeeting admin application are listed here.

	Settings	ADMIN USERS ANALYTICS	• خ ÷ ±
2	Shaw 5 entries		
	Admin user 1 (me)	adminuser1@mail.com	/
3	Admin user 2 Admin user 3	adminuser3@mail.com adminuser3@mail.com	
	Admin user 4 Admin user 5	adminuser4@mail.com adminuser5@mail.com	
6	• 19 total	Ī	

Adminuserstab:

- 1 Create user: Create a new admin user.
- Number of admins: The number of admins displayed per page.
- 3 List of admins: Admin parameters are displayed. (the active admin user is marked as"(me)")
- 4 Action:
 - Edit: Edit current admin user's parameters.
 - Remove: Remove selected admin user from the Tigermeeting admin application.
- Paging: If there are more admins, they are displayed on other pages.
 - Total number of admins: Total number of admins in the application.



- 1 Create new admin user: When a new user is created, a registration email is sent to the provided email address, with the user password. Make sure that the activation email is not in the spam folder.
 - 1 First name: First name of the admin user.
 - 2 Last name: Last name of the admin user.
 - Email: Email address of the admin user.
 - Cancel: Cancel action.
 - 5 Create: Create the user and send the activation email.



4 Edit current admin user:

- **1** First name: First name of the admin user.
- 2 Last name: Last name of the admin user.
- 3 Email: Email address of the admin user.
- Password change:
 - Old password: Without the old password, a new password cannot be created.
 - New password: New password must contain minimum 8
 - characters. Confirm new password: New password and confirm password must be exactly the same.
- 5 Close: Close the user properties section.
- 6 Save changes: Save current admin user's parameters.



	USER PROPERTIES	-]
	Admin User		
	FIRST NAME	Admin	
	LAST NAME	User	
	 	admin@mail.com	
	PASSWORD CHANGE		
	OLD PASSWORD		
4	NEW PASSWORD		
	CONFIRM NEW PASSWORD		
5	Close	Save changes	6

Analytics tab

The collected data is used to present useful and valuable information about the usage of the meeting rooms, company culture and event analytics.

Settings et al.
LICENSES CALENDARS ROOMS ADMIN USERS
 Allow event log collection On
Collected event logs are treated confidentially and strictly follow the Privacy Policy. Events are sent by the Tiger applications when the event log feature is turned ON and the devices are
operational during the event - that means:
Not all events are necessarily logged
Events may be missing and there could be holes in the event timeline
Events may have strange order - like calendar events without beginning or end
Events could appear to be longer or shorter than they actually were, depending of the events timeline, network or technical disturbances or the from/to interval
Therefore, the presented information is created in hope to be useful but BE AWARE that:
the information may not be accurate
the information may not represent the real life events flow
the occupancy calculations may be wrong
the presented information may lead to misleading conclusions
Admin users are able to turn ON/OFF the event log feature in the Tiger Admin App. The default setting is ON. On explicit request, all accumulated event logs can be requested or permanently
deleted - complying with the GDPR, CCPA, LGPD and POPI regulations. Tiger licences are perpetual, but the event logs are not kept indefinitely. The older logs are permanently erased after the



Analytics tab:

1 Admin users are able to turn ON/OFF the event log feature in the Tigermeeting Admin App. The default setting is ON.

Collected event logs are treated confidentially and strictly follow the Privacy Policy. Events are sent by the Tigermeeting applications when the event log feature is turned ON and the devices are operational during the event - that means:

- □ Not all events are necessarily logged.
- □ Events may be missing and there could be holes in the event timeline.
- Events may have strange order like calendar events without beginning or
- end Events could appear to be longer or shorter than they actually were, depending on the events timeline, network or technical disturbances or the from/to interval.

Therefore, the presented information is created in hope to be useful but BE AWARE that:

- □ the information may not be accurate.
- □ the information may not represent the real-life
- events flow the occupancy calculations may be wrong.
- □ the presented information may lead to misleading conclusions.

Admin users are able to turn ON/OFF the event log feature in the Tigermeeting Admin App. The default setting is ON. On explicit request, all accumulated event logs can be requested or permanently deleted - complying with the GDPR, CCPA, PIPEDA, CDR, LGPD and POPI regulations.

Tigermeeting licences are perpetual, but the event logs are not kept indefinitely. The older logs are permanently erased after the pre-defined expiration time, according to the Privacy Policy. In case of any query, please do not hesitate to contact the Tigermeeting Customer Service at: support@tigermeeting.app



Analytics

Analytics can be generated for booking, overview devices, admin and company between the given date range.



Please, select the **event scope** to view the analytics

Settings:

- 1 Device list: Analytics will be generated for the selected device. Booking and overview devices, admin application and company.
 - Company analytics will include all data from all booking screen devices that the company has.
- 2 Reload analytics: Reload analytics data to the selected
- device. Date pickers: Analytics will be generated between
- $\overline{\mathbf{A}}$ the set dates. Event analytics date range.
- 5 Device info. (type, identification, platform,
- 6 etc.) Data of the analytics are represented in charts.



3 Date pickers:

1 Year and month pickers.

Pirst, the start date must be selected.

Second, the stop date must be selected.

To set date range across months use the Year and month pickers.



6 Charts:

Chart options:

Chart data can be printed (Print chart), or downloaded (download PNG, JPEG, PDF, SVG image, or data as CSV, XLS). Data can be displayed in table view (view data table).

Events (in case of booking device, boot, meeting booked, meeting confirmed, meeting started, meeting ended, etc.) are displayed in the event timeline. The chart is zoomable, by clicking and dragging a selectable area. The Timeline chart and table data contains max 300 events. Other charts do not have this limitation.

When hovered above the event, the event details are displayed.
Event timeline chart filter.

Event timeline filter. (chart zoom can be changed here)



Charts and data visualization can be changed by later releases.



Admin logs

Every event that has been executed int the Tigermeeting admin application is displayed in the event list. Events like admin user login, logout, Device settings update, software update, license attachment, detachment, device reboot, etc. are listed.

Admin log:

- 1 List of events, causes, date and time.
- **2** Total number of events.
- Beging: Page through the events.

t	Admin Logs			8 소 후 초
₹ 1 1	USER	EVENT	TIME	·
~Q	user@mail.com(me)	Device settings update	2020-12-01 11:14:59	
	user@mail.com(me)	Device settings update	2020-12-01 11:14:45	
	user@mail.com(me)	Login	2020-12-01 11:11:43	
Ţ.				
2	- II total			

Important events are marked with red color to turn attention.

zoli@tigermeeting.app (me)	License attached (797259278f446f60)	2024-03-29 18:37:49	83.251.235.241	Windows (3.3.5)
zoli@tigermeeting.app (me)	Screenshot (797259278f446f60)	2024-03-29 18:18:08	83.251.235.241	Windows (3.3.5)
zoli@tigermeeting.app (me)	Device settings sync	2024-03-29 18:17:57	83.251.235.241	Windows (3.3.5)
zoli@tigermeeting.app (me)	Theme applied (manufaktura)	2024-03-29 18:17:55	83.251.235.241	Windows (3.3.5)

The Admin logs loads just the last 1000 records, however customers are able to request to see or delete all available logs according to the Privacy Policy.

NOTE: The admin logs cannot be turned off.



Wizard

Generally, it is used when the Tigermeeting admin application is started for the first time. The user is guided by a step-by-step wizard.



Wizard:



Overview

Basic overview of the available devices.

			1	
Vizard	ENDARS ROOMS			2
IP / MAC ADDRESS	SOFTWARE VERSION	LIGENSE	TIMEZONE	1
IP: 192.168.150.116 MAC: D6:49:73:32:B2:D6	1.5.0	No license	Europe/Belgrade	
IP: 192.168.150.197 MAC:AB:A5:62:8B:7F:AB	1.5.0	No license	Europe/Belgrade	3
IP: 192.168.150.171 MAC: 3A:74:7D:C1:97:3A	1.5.0	No license	Europe/Belgrade	
IP: 192.168.150.135 MAC: E4: 24:67:3F:FD: E4	1.5.0	No license	Europe/Belgrade	i .l
4 total				

tiger

Overview:

- 1 Add device: Add device with IP address not discovered by the Tigermeeting admin application. It is used when a device is in another subnetwork.
- 2 Next: Takes the user to the next setting, 'Licenses'.
- 3 List of devices: Available devices are displayed for attachment.

Licenses

Licenses can be distributed among the devices. For more details check section Settings, Licenses tab.



Licenses:

- 1 Previous: Go to previous setting, 'Overview'.
- Next: Go to the next setting, 'Calendars'.
- List of licenses: List of available licenses.
- A Distribute licenses: Distribute licenses to the available devices.



Calendars

Calendars can be attached to the admin application. For more details check the section Settings, Calendars tab.



Online calendars:

- Previous: Go to previous setting, 'Licenses'.
- 2 Next: Go to the next setting, 'Rooms'.
- List of calendars: List of attachable calendars. (Microsoft365, Exchange, Google, Google Workspace)

Additional calendars:

- □ iCalendar a file in iCal file format is exposed via an URL for each room no authentication is needed.
- □ Local Calendar a default calendar where the booking screens exchange bookings between each other.



Rooms

Rooms can be attached to the devices. For more details check the section Settings, Rooms tab.

Vizard OVERVIEW LICENSES CALE	NDARS ROOMS	1 2 V 2 V PREVIOUS FINISH	, - 1
Show 5entries DEVICES	LICENSE		_,
IP: 192.168.150.135 MAC: E4:24:67:3F:FD:E4	No license		
IP: 192.168.150.116 MAC: D6:49:73:32:B2:D6	No license		
IP: 192.168.150.197 MAC: AB:A5:62:8B:7F:AB	No license		
IP: 192.168.150.171 MAC: 3A:74:7D:C1:97:3A	No license		
4 total	'		
3		4	

Rooms:

- 1 Previous: Go to previous setting, 'Calendars'.
- Finish: Finish the wizard (attach licenses, attach calendars, create, and attach rooms to devices) and synchronize the settings with the devices.
 List of devices: List of devices.
- Rooms:
 - No calendar or Google calendar attached: Room name can be added and when the wizard is finished the room is created. (on google
 - calendar as well) Microsoft365, Exchange, Google Workspace calendars attached: Imported rooms can be selected from a dropdown.



Practical use cases

Install the admin application

- □ Go to 'https://tigermeeting.app/en/downloads' and download the latest Tigermeeting admin application for the desired operating system.
- $\hfill \hfill \hfill$
- □ Select 'Anyone who uses this computer (all
- users)'. Click the 'Next' button.
- □ Choose the destination folder.
 - By default, it is: 'C:/Program Files/Tigermeetingroom'.
- □ Click the 'Install' button.
- □ When the installation is finished, uncheck the 'Run Tigermeetingroom' checkbox and click the 'Finish' button.

Turn on the devices

- □ Turn on the Android device.
- □ Install the Tigermeeting android application.
- Search for the Tiger android application among the apps.

Run the Tiger application.

Turn on the "Draw over other apps" permission.

Start the admin application

- □ Run the admin application.
- □ Register a new user by selecting the 'register'
- □ tab. Fill in the required user information.
 - The company code will determine the number and type of usable licenses.
- □ Finish the registration.
- □ Log in to the Tigermeeting admin
- □ application. For the first time setup, press the 'Yes' button.

Run wizard in admin application

- □ Make sure that all the android applications and firmware are up to date.
- □ Wait for the admin application to discover all devices.
- □ When all devices are discovered press the 'Next' button to licenses.
- Distribute licenses to the devices.
- □ Press the 'Next' button to calendars.
- Attach the desired calendar to the admin application.
- Press the 'Next' button to rooms.
- $\hfill\square$ Attach rooms to the selected devices.
- $\hfill\square$ Finish the wizard by pressing the 'Finish' button.
- □ After the synchronization all devices should be configured.



Configuring Microsoft365 calendar

To use Microsoft365 calendar in the Tigermeeting admin application, it requires previous configuration.

Rooms must be created via Microsoft365 admin panel and room groups (roomlists) and permissions via Windows PowerShell.

To accomplish this, follow these steps:

Microsoft365 admin panel

- □ Goto"https://www.office.com".
- Press the "Sign in" button.
 - 1 Enter username and password.
 - Username: admin@company.onmicrosoft.com
 - Password: *********





2 Sel	ect the	admin	center.							
Good afte	ernoon									nstall Office $$
+			w	x	•	N	4	uji	M	A 33
Start new \vee	Outlook	OneDrive	Word	Excel	PowerPoint	OneNote	SharePoint	Teams	Yammer	Admin
\bigcirc	\rightarrow									
Compliance	All apps									

All room resources are listed here, and these resources can be added to the room group later, if there are no rooms defined, they can be added or edited here.

After selecting the admin center:

- 2 Select "Resources" menu.
- 3 Select "Rooms & equipment" submenu.

4 Create new room resources with the "+ Add" button.

iii Microsoft 365 a	admin center
	<
🔂 Home	
A Users	\sim
g ^{PA} Groups	\sim
🖨 Resources	
Rooms & equipment	
Sites	
Public website 🖂	
🖬 Billing	\sim
🖸 Support	\sim
រ៍្ល៊ីវិ Settings	\sim
🔑 Setup	\sim
🗠 Reports	\sim
💝 Health	\sim
Admin centers	~



5 Add room parameters:

- □ Type must be "Room".
- □ Add the room's name (for example:
- "greenroom") Email (for example: "greenroom")
- □ Capacity (how many seats are in the meeting room)
- Location
- □ Phone number

Room's name, and email parameters are mandatory.

	g greenroom			×
	Add			1
	Room			•
	Name *			i
	Email *			
•	greenroom	0	company.onmicrosoft.com	•
5	Capacity			
	20			
	Location			
	Phone number			
	Add Cancel]	

If more rooms are required repeat 4 and 5

Configuration through Windows PowerShell

There are two ways to configure Microsoft Microsoft365 calendar roomlists:

- □ Through Microsoft365 helper script (read more in a dedicated chapter):
 - This script must be executed in admin Windows Power Shell:
- Download the setup script through the Tigermeeting admin application.
 Or manually:
 - To configure the Microsoft365 calendar, follow the steps under "Manual configuration".



Configuration by using the Microsoft 365 setup helper script

Follow these steps:

 Download the setup script through the admin application. In the downloaded file, scrips are for Microsoft365 and Exchange configuration, used on Linux, Mac, and Windows operating systems.

2 Extract downloaded file. (In this example Microsoft365 script will be used for Windows operating system)



Run the Windows PowerShell in admin mode.

4 Inside the Windows PowerShell, navigate to the extracted script file.

		Open	
Programs (1)	-	Open file location	
🛃 Windows PowerShell	8	Run as administrator	
	I.	Scan selected items for viruses Pin to Taskbar Pin to Start Menu Open with Restore previous versions Send to Cut	
		Copy Delete Properties	
		Default Programs Help and Support	1
© See more results		V Hibernate D	



4----

Use the following commands:

- □ Change execution policy to run script:
 - Set-ExecutionPolicy Unrestricted -Scope CurrentUser When asked
 - to change policy type, type "Y" and press enter.
- □ Set process "Bypass" policy:
 - Set-ExecutionPolicy Scope Process ExecutionPolicy Bypass When asked to change policy type, type "Y" and press enter.
- Display execution policy list: Get-ExecutionPolicy -List





Running the Microsoft365 helper script

NOTE: This is the recommended way configuring the room lists. There is a whole chapter dedicated to the Microsoft 365 helper script, a few chapters below. Please, follow the instructions there.

Read the README.md file. Review the code and run the script:
 ./tigermeeting_microsoft365.ps1



□ Enter admin user email address: Enter admin's email address. It is IMPORTANT that the office365 admin user's email is used. In this example "admin@company.onmicrosoft.com" is used.



□ Enter room list name: Room list will be attached in the Tigermeeting admin application. In the next step, rooms will be created and attached to the room list. In this example create a new room list "cafe".



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Enter room email addresses: For this example, enter 2 room email address:
 "greenroom@company.onmicrosoft.com" and press enter. Created in step(,)

□ "redroom@company.onmicrosoft.com" and press enter. Created in ●,③) step (

"end" and press enter. (now the room list is ready)



□ If an error occures that is because of the excecution policy. Enter your office365 admin email address and password and press the "ok" button.



The roomlist is processed.



□ At the end the "Completed" text is displayed. (full text is not included in the last screenshot.)

Manual configuration

Run Windows PowerShell as Administrator:



Use the following commands:

6 It is required that all PowerShell scripts are signed by a trusted publisher: Set-ExecutionPolicyRemoteSigned

7 Connectto Microsoft365 calendar:

\$UserCredential = Get-Credential

10

- It is recommended to use the Microsoft365 account which you plan to use for authenticating within the tiger admin application.
- \$Session = New-PSSession ConfigurationName Microsoft.Exchange -ConnectionUri https://outlook.office365.com/powershell-liveid

-Credential \$UserCredential -Authentication Basic -

AllowRedirection Import-PSSession \$Session

IMPORTANT: If no room lists are defined then define one first, otherwise



continue with step. You will get "no room resources defined" message in the Tigermeeting admin application if there are no room lists defined.

R Create new room group:

New-DistributionGroup-Name testlist-DisplayName "testlist"-RoomList

Add room resource to the room group:

Add-DistributionGroupMember –Identity testlist -Member greenroom@company.onmicrosoft.com

- □ If there are more room resources to add to the room group, repeat ste 9.
- Add permission for user (admin@company.onmicrosoft.com) to book meeting on room resource: (It is important to use the account set after "-User" parameter for Tigermeeting admin Microsoft365 authentication)
 - Add-MailboxPermission -Identity greenroom@company.onmicrosoft.com admin@company.onmicrosoft.com -AccessRights -User FullAccess -InheritanceType All

□ If there are more room resources to add to the room group, repeat ste**10**.

n If the resource mailbox's calendar shows the organizer's name instead of the subject, run this command for each room resource:

Set-CalendarProcessing -Identity greenroom@company.onmicrosoft.com -AddOrganizerToSubject \$false -DeleteSubject \$false -DeleteComments \$false - RemovePrivateProperty \$false

Step 🍈 is required for all room resources. Repeat step 👔 with different room resource identity.



Disconnect from PowerShell session: Remove-PSSession \$Session

In this example "testlist" room group is created under the name of "testlist" (this name will appear in the Tigermeeting admin application after the calendar attachment when secting the group of rooms (room lists)). The room group contains one room "greenroom@company.onmicrosoft.com". Now the Microsoft365 calendar is configured and ready to use in the Tigermeeting admin application.

Instructional video:

https://www.youtube.com/watch?v=tzfgVGXUHVo



Tigermeeting admin application

Attach Microsoft365 calendar with the following user parameters:



Contraction of the second seco	8 ☆ ☆ ▲
LICENSES CALENCARS ROOMS ADMIN USERS	
Office 365	
admin@company.onmicrosoft.com	
Password	
CALCO SIBUT	





Configuring Exchange calendar

To use Exchange calendar in the Tigermeeting admin application, it requires previous configuration. Rooms must be created via the Exchange admin panel and room groups and permissions via the Exchange Management Shell. To accomplish this, follow these steps:

Exchange admin panel



After the login:

2 Select recipients, resources tab. (All room resources are listed here, and these resources can be added to the room group later, if there are no rooms defined, they can be added or edited here.)

-	Exchange admin center							
2	recipients mailboxes groups resources contacts shared migration							
	permissions	ermissions						
	compliance management	+- ≠ a > a						
	organization	DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS				
	protection							
	mail flow							
	mobile							
	public folders							
	unified messaging							
	servers							
	hybrid							
			1 select	ted of 4 total				



3 Press the New (Plus) icon, and from the dropdown list select "Room mailbox".



4 Add room's parameters:

- □ Add the room's name (for example: "redroom")
- □ Alias (also called mail nickname) (for example: "redroom")
- Location
- Phone
- □ Capacity (how many seats are in the meeting room)

Room's name, and alias parameters are mandatory.

	new room mailbox A room mailbox is a resource mailbox that's assigned to a physical location. Users can easily reserve rooms by including room mailboxes in meeting requests. Just select the room mailbox from the list and edit properties, such as booking requests or mailbox delegation. Learn more
	*Room name: redroom *Alias: redroom Organizational unit: Organizational unit:
4	Browse Location: Phone: Capacity: More options
	Save Cancel
e rooms are re	equired repeat 3 and 4

If mo


Configuration through Exchange Management Shell

There are two ways to configure Microsoft Exchange

- □ calendar: Through script:
 - This script must be executed in Windows Exchange management
 - Shell: Download the setup script through the Tigermeeting admin application.
- □ Or manually:
 - To configure the Microsoft Exchange calendar, follow the steps under "Manual configuration".

Configuration with the Microsoft helper script

In order to download the Microsoft365 helper script follow these steps:

 Download the setup script through the admin application. In the downloaded file, scrips are for Microsoft365 and Exchange configuration, for Linux, Mac, and Windows operating systems.

2 Extract downloaded file. (In this example Exchange script will be used for Windows operating system)

LICENSE	Download book Download book Download over Download over	ting app (Android 4) ting app (Android 7) view app (Android 4) view app (Android 7)			
 Q → Computer → Local Janize ▼ Include in library ▼ 	Nik (D) + Script Share with + Burn New folder	• 49 Search	ionpt	2 P 0	
Favorites Libraries Homegroup Computer I Load Disk (C) I Load Disk (C) Network	None	Date modified Type 2019/06/03.231 PSI File	Ste 218		



3 Run the Exchange management shell.

4 Inside the Exchange management shell, navigate to the extracted script file.





Running the Microsoft 365 helper script

NOTE: This is the recommended way configuring the room lists. There is a whole chapter dedicated to the Microsoft 365 helper script, a few chapters below. Please, follow the instructions there.

Read the README.md file, review the code and run the script:

./tigermeeting_microsoft365.ps1



□ Enter admin user email address: Enter admin's email address. It is IMPORTANT that the exchange admin user's email is used. In this example "administrator@company.local" is used.





□ Enter room list name: Room list will be attached in the Tigermeeting admin application. In the next step, rooms will be created and attached to the room list. In this example create a new room list "cafe".

E_{λ}^{2}	Machine: MSEX.tiger.local	-	٥	x
Welcome to the Exchange Manage	ment Shell!			^
Full list of cmdlets: Get-Command Only Exchange cmdlets: Get-ExCommand Cmdlets that match a specific string: H Get general help: Help Get help for a cndlet: Help <cmdlet nam<br="">Exchange team blog: Get-ExBlog Show full output for a command: <comman< td=""><td>elp *<string>* e> or <cmdlet name=""> -? d> { Format-List</cmdlet></string></td><td></td><td></td><td>=</td></comman<></cmdlet>	elp * <string>* e> or <cmdlet name=""> -? d> { Format-List</cmdlet></string>			=
Show quick reference guide: QuickRef UERBOSE: Connecting to MSEX.company.loc UERBOSE: Connected to MSEX.company.loc (PS) C:Windows\sustem32DD: [PS] D:\Script PS] D:\Script>.\exchangeWindows.ps1 Exchange Tigermeeting config script Please enter your admin user email addr Please enter the RoomList identity you Add room to the room list (enter the ro	al. al. ess: administrator@company.local would like to use (use existing or create new) (Example: Tigermeeting): om's mailbox address)? To finish adding, type: end:	caf	e	>

□ Enter room email addresses: For this example, enter 2 room email address:

greenroom@company.local" and press enter. Created in step (,) "redroom@company.local" and press enter. Created in ●,⑤) step (

end" and press enter. (now the room list is ready)

E ²	Machine: MSEX.tiger.local	_ 0	x
Welcome to the Exchange Management Shell!			^
Full list of cmdlets: Get-Command Only Exchange cmdlets: Get-ExCommand Cmdlets that match a specific string: Help * <string Get general help: Help Get help for a cmdlet: Help <cmdlet name=""> or <cmdle Exchange team blog: Get-ExBlog Show full output for a command: <command/> ; Format- Show guick meference guide: QuickRef</cmdle </cmdlet></string 	y≻* >t name> -? -List		≡
UERBOSE: Connecting to MSEX.company.local. UERBOSE: Connected to MSEX.company.local. [PS] C:WindowS.vstem32D: [PS] D:\Scd .\Script [PS] D:\Scd .\Script Exchange Tigermeeting config script Please enter the RoomList identity you would like t Add room to the room list (enter the room's mailboy Add room to the room list (enter the room's mailboy Add room to the room list (enter the room's mailboy	strator@company.local co use (use existing or create new) (Example: Tigermeeting) < address)? To finish adding, type: end: greenroom@company. < address)? To finish adding, type: end: redroom@company.lo < address)? To finish adding, type: end: end_	: cafe local cal	

□ At the end the "Completed" text is displayed. (full text is not included in the last screenshot.)



Manual configuration

Open rdb client and connect to the exchange server. When the connection is successful, open the Exchange Management Shell. Windows PowerShell is also available for remote configuration. For more information visit:

https://docs.microsoft.com/en-us/powershell/exchange/exchange-online/connectto- exchange-online-powershell/connect-to-exchange-onlinepowershell?view=exchange- ps





Use the following commands:

□ IMPORTANT: If no room lists are defined then define one first, otherwise continue with step . You will get "no room resources defined" message in the Tigermeeting admin application if there are no room lists defined.

5 Create new room group:

- New-DistributionGroup -Name DistributionGroup -DisplayName "Meeting Rooms"-RoomList
- 6 Add room resource to the room group:
 - Add-DistributionGroupMember Identity DistributionGroup Member redroom@tiger.local
- □ If there are more room resources to add to the room group, repeat steff.
- Add permission for user (admin@mail.local) to book meeting on room resource: (It is important to use the account set after "-User" parameter for Tigermeeting admin Exchange authentication)
 - Add-MailboxPermission -Identity redroom@tiger.local -User admin@mail.local -AccessRights FullAccess -InheritanceType All -Automapping \$false
- □ If there are more room resources to add to the room group, repeat ster7.
- 8 If the resource mailbox's calendar shows the organizer's name instead of the subject, run this command for each room resource:
 Set-CalendarProcessing -Identity redroom@tiger.local -DeleteSubject \$False -AddOrganizerToSubject \$False
- Step 8 is required for all room resources. Repeat step 8 with different

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room resource identity.

O Private meetings are visible if the Private Flag is not processed: Set-

CalendarProcessing -Identity redroom@tiger.local -RemovePrivateProperty \$False

To change more rooms private meeting flag repeat stop with different room resource, identify.

10 Enable correct meeting title and author on device:

- Set-CalendarProcessing -Identityredroom@tiger.local -DeleteComments \$False
- □ To change display of title and author for different rooms repeat ⊕p with different room resource identify.

In this example "DistributionGroup" room group is created under the name of "Meeting Rooms" (this name will appear in the Tigermeeting admin application after the calendar attachment when electing the group of rooms (room lists)). The room group contains one room "redroom@tiger.local". Now the Exchange calendar is configured and ready to use in the Tigermeeting admin application.

Tigermeeting admin application

Attach exchange calendar with the following user parameters:

- username:admin@mail.local(usefullemailaddress)
- Password: *********
- Host: https://exchange.url.local (If the server uses 'http' or 'https' protocol then use it)
- Server version: Example: "Exchange 2016"

NOTE: Tigermeeting is compatible with Microsoft Exchange servers 2007 to 2019. It is important to set the actually used Exchange server version as the API schemas are different and server version dependent.



REQUIREMENT: Exchange Servers **must have NTLM enabled**. Please, read the Windows Server and the Exchange Server documentation for more information.



CALENCARS ROOMS ADMIN USERS		8 4 4 4
	E	
	Username admini@mail.local Password	
1 2	Host	
	Server version Exchange 2016	
	CANCEL SUBMT	

If the authentication was successful, the configured roomlists will appear.

Choose the room list that contains room resources for the intended office/school environment.



The Exchange calendar is attached now.

You can continue assigning online room resources to the devices listed in the Network tab.

IMPORTANT NOTE

Devices running Tigermeeting Android applications are independent entities, that maintain their own sessions during the normal operation, therefore larger installations may hit some of the Exchange Server's default session limits.



REQUIREMENT: Please, allow one session per device running Tigermeeting for the Admin user.

The error will manifest as described below:

- Some of the screens running Tigermeeting will not be able to retrieve the room bookings
- The Tigermeeting device log will show: Action : [ACTION_GET_RESERVATION] : Error : [The request failed. The server cannot service this request right now.
 Try again later.]
- In the Exchange Server Event logs (MSExchangelS) "client type WebServices exceeded the maximum of 16 objects of the type "Session" events will appear

Mapi session /c (FYDIBOHF23SI	p=SLCE/ou=Exchange Adn PDLT)/cn=Recipients/cn=e	ninistrative Group 8e072b83b6b43f19200a	a052af4b44b-Room Booking
Admin with clie	ent type webservices excee	and the maximum of 1	o objects of type Session.
Log Na <u>m</u> e:	Application		
Source:	MSExchangelS	Logge <u>d</u> :	2024-04-07 11:54:50
Event ID:	9646	Task Categor <u>y</u> :	MAPI
Level:	Error	<u>K</u> eywords:	Classic
<u>U</u> ser:	N/A	Compute <u>r</u> :	rcpost1.kada.lan
OpCode:			

The solution is to raise the limits in the Exchange Server

Maximum Allowed Sessions Per User

Maximum Allowed Sessions Per User limit as described in Microsoft documentation (like https://learn.microsoft.com/en-us/exchange/managed-store-limits-exchange-2013-help)

To increase the maximum number of sessions, the following value must be adjusted in the Windows registry on the Exchange Server. In this example, the maximum number of concurrent sessions is increased to 128 sessions (80 hexadecimal):

[HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Services/MSExchangelS/Para

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Page: 80

metersSystem]

"Maximum Allowed Sessions Per User"=dword:0000080

Afterwards the service "Microsoft Exchange Information Store" must be restarted.

NSPI session limit

The NSPI session limit that allows a maximum of 50 sessions per user and domain controller by default can be reached as well.

To increase this limit, the following value must be set in the Windows registry on each domain controller:

[HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Services/NTDS/Parameters] "NSPI max sessions per user"=dword:00000200 Afterwards, please restart the domain controller.

Read more at https://support.microsoft.com/en-us/topic/error-trying-to-connect-tomicrosoft-exchange-server-results-in-mapi-e-logon-failed-7d322bd7-0dce-1fe9b446-90f153000286

Throttling policy

Exchange may lock out the admin user for some time with message like: **The budget** for user 'Sid~[some user]' is locked out until [some time]. Max Burst: 480000, Recharge Rate: 1800000, CutoffBalance: -600000

The Exchange Server is limiting the amount of server resources that a single user or application can consume.

Please allow more resources for the Admin user that serves all the screens in the entire installation.

Read more at: https://learn.microsoft.com/en-us/exchange/client-developer/exchange-webservices/ews-throttling-in-exchange

For professional assistance, please reach out to Microsoft Support.



Microsoft365 helper script

Introduction

Microsoft365 and Exchange Server are very sophisticated calendars that can be used in many different environments.

Huge corporations stretch over many continents, have offices in many cities, numerous buildings – but everything is kept in a single calendar. In order to organize resources Microsoft uses the term "roomlist" to group rooms that belong to one entity – one office for example.

Room list management can be done in the Admin panel or using powershell commands – but Tigermeeting customers had troubles setting up themselves, therefore Tigermeeting developers have created a simple, menu based tool that help with the roomlist management.

Tigermeeting Microsoft365/Exchange Online config helper script is a lightweight powershell script, intentionally written without fancy scripting techniques in order to be easily human readable.

We encourage all customer administrators who intend to use this helper script to review, understand and acknowledge all the RoomList related operations.

This script is written to be helpful for the customers, but all operations can be executed line by line or via the Microsoft365 Admin setup console or Exchange Management Shell.

Download and installation

Download the Microsoft helper script from the Admin App

🕼 Tigermee	ting								×
t	Setting	S				6	4	\$ •	•
	LICENSES	CALENDARS	ROOMS	ADMIN USERS	ANALYTICS	Download Android APK (for Android 4.x devices)		
N.	_	_				Download Android APK (for 5.0 and newer devic	es)		
¢,						Download Microsoft 365/Exchange setup help	er		

Unpack the zip file in a directory.

The script needs to be run from an Admin PowerShell or Exchange Management

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Shell

Powershell installation on different operating systems

MacOS powershell install

brew cask install powershell \$pwsh

Ubuntu powershell install

snap install powershell --classic \$powershell

OpenSuSE install

Please follow https://snapcraft.io/install/powershell/opensuse

Fedora installation

Please follow https://snapcraft.io/install/powershell/fedora

Windows powershell

powershell -> run as Administrator

Prepare the room resources

NOTE: This script operates just with the RoomLists! **NOTE**: Creating and deleting room resources are admin tasks that need to be done prior running the script that are done via the Microsoft365 Admin or Exchange Admin Center.

To manage room resources in Microsoft365

- Login to your Microsoft365 account.
- Click on the top left menu icon
- Select All apps -> Admin -> Show All -> Resources -> Rooms & Equipment.
- add, delete and edit the room resources

To manage room resources in Exchange Server

- Login to your Exchange admin center
- On the left menu: recipients -> resources
- add, delete and edit the room resources



For RoomList related operations - to run this script - Global Admin, Power user is needed.

For the calendar operations Office365 E1 user permission/licence is enough. It is recommended to remove the Global Admin permissions after attaching the calendar operation is done and verified to work from the Tigermeeting Admin Application.

Running the script (example)

Start PowerShell as an Administrator Change to the directory where the script is The execution policy MUST be set before running the script: Set-ExecutionPolicy -ExecutionPolicy Unrestricted Administrator: Windows PowerShell (x86) PS C:\WINDOWS\system32> cd ..\..\Users\Zoli\Work\tigermeeting-github\meetingroom setup scripts\ PS C:\Users\Zoli\Work\tigermeeting-github\meetingroom_setup_scripts> Set-ExecutionPolicy -ExecutionPolicy Unrestricted Execution Policy Change The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose you to the security risks described in the about_Execution_Policies help topic at https:/go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy? [Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): Yes S C:\Users\Zoli\Work\tigermeeting-github\meetingroom_setup_scripts> .\tigermeeting_microsoft365.ps1 Tigermeeting Microsoft365/Exchange Online config helper Setting the ExecutionPolicy - please answer YES to accept. et-ExecutionPolicy : Windows PowerShell updated your execution policy successfully, but the setting is overridden by policy defined at a more specific scope. Due to the override, your shell will retain its current effective execution policy of Unrestricted. Type "Get-ExecutionPolicy -List" to view your execution policy settings. For more enformation please see "Get-Help Set-ExecutionPolicy". At C:\Users\Zoli\Work\tigermeeting-github\meetingroom_setup_scripts\tigermeeting_microsoft365.ps1:42 char:1 Set-ExecutionPolicy RemoteSigned + CategoryInfo : PermissionDenied: (:) [Set-ExecutionPolicy], SecurityException + FullyQualifiedErrorId : ExecutionPolicyOverride,Microsoft.PowerShell.Commands.SetExecut If the ExecutionPolicy is accepted - the errors above can be safely ignored.

...but please make sure that the ExecutionPolicy is Unrestricted below.

The current ExecutionPolicy is: Unrestricted

Authenticate the Administrator. To make sure that the roomlists are accessible for the Admin user that will be used to the Authentication and calendar operations, the best practice is to use the same Admin credentials.

NOTE: The authentication supports MFA – Multi Factor Authentication too.



Tigermeeting Admin – User manual version 3.3.6

Sign in to your account	X Sign in to your account X
Sign in to your account Microsoft c tigermeeting 1@manufakturaltd.onmicrosoft.com Enter password Forgotten my password Sign in with another account	X Sign in to your account X Microsoft tigermeeting 1@manufakturaltd.onmicrosoft.com Verify your identity 123 Use a verification code I23 Use a verification code C24 Text +XX XXXXXXX86 Are your verification methods current? Check at https://aka.ms/mfasetup
Terms of use Privacy & cookies After a successful authenticatio	Cancel Terms of use Privacy & cookies on the following menu will appear:

Z Administrator: Windows PowerShell (x86)			\times
This V3 EXO PowerShell module contains new REST API backed Exchange Online cmdlets which doesn't requir t-Server communication. You can now run these cmdlets after turning off WinRM Basic Auth in your client ing it more secure.	e WinRM machine	for C thus	lien ▲ mak
Unlike the EXO* prefixed cmdlets, the cmdlets in this module support full functional parity with the RF	9S (V1) (mdlet	5.
V3 cmdlets in the downloaded module are resilient to transient failures, handling retries and throttlir ly.	g error:	s inhe	rent
However, REST backed EOP and SCC cmdlets are not available yet. To use those, you will need to enable W	linRM Ba	sic Au	th.
For more information check https://aka.ms/exov3-module			
ROOMLIST OPERATIONS MENU			
1 Create a new RoomList with rooms 2 Add rooms to an existing RoomList 3 List rooms in a RoomList 4 List all RoomLists 5 List all rooms 6 Delete a RoomList 7 Delete a room from an existing RoomList			
8 EXIT			
Enter your choice (1 to 8):			-

The ROOMLIST operations menu is very intuitive and straight forward:

- 1 Create a new RoomList with rooms
- 2 Add rooms to an existing RoomList
- **3** List rooms in a RoomList
- 4 List all RoomLists
- **5** List all rooms
- 6 Delete a RoomList
- 7 Delete a room from an existing RoomList
- 8 EXIT



Operations

Please note: this his script deal just with roomlists: creates, lists, deletes.

One room/room resource can be part of several roomlists. Deleting a roomlist does not delete the room resources

NOTE: the changes are permanent. THERE IS NO ROLLBACK AVAILABLE

Common use case

Verify if the room resources are created in the Microsoft365/Exchange Admin panel **press 5**

Inter your choice (1 to 8): 5 List all rooms Wame PrimarySmtpAddress ProhibitSendQuota Tigermeeting2 tigermeeting2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev1 zoli-rel2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev1 zoli-rel2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev2 zoli-rel2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev2 zoli-dev2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev2 zoli-dev2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev3 zoli-dev2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev2 homedev1@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) coli-dev3 tigermeeting1room2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) tigermeeting1Room2@manufakturaltd.onmicrosoft.com 49.5 GB (53,150,220,288 bytes) tigermeeting1Room3 tigermeeting1Room3 tigermeeting1Room3@manufakturaltd.onmicrosoft.com	Z Administrator: Windows PowerShell (x86)						×
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The listed rooms can be bundled into room lists.

You can copy paste room names later when needed.

List currently defined roomlists: press 4



🔰 Administrator: Windows PowerShell	(x86)		_	\times
Name roomroom zoli-testlab homedev TigerMeeting1RoomList3 DelgateGroupList20210924091817 ZolTiger List 1 zoli-prodlab	PrimarySmtpAddress roomroom@manufakturaltd.onmicrosoft.com zoli-testlab@manufakturaltd.onmicrosoft.com homedev@manufakturaltd.onmicrosoft.com TigerMeeting1RoomList3@manufakturaltd.onmicrosoft.com delgategrouplist@manufakturaltd.onmicrosoft.com ZolTigerList@manufakturaltd.onmicrosoft.com zoli-prodlab@manufakturaltd.onmicrosoft.com	DisplayName roomroom zoli-testlab homedev TigerMeeting1RoomList DelgateGroupList ZolTiger List 1 zoli-prodlab	t3	1
The operation has completeted ROOMLIST OPERATIONS MENU				
1 Create a new RoomList with ro 2 Add rooms to an existing Roor 3 List rooms in a RoomList 4 List all RoomLists 5 List all rooms 6 Delete a RoomList 7 Delete a room from an existin	poms mList ng RoomList			
8 EXIT Enter your choice (1 to 8):				

On the very same way it is possible to create new roomlist, add rooms to an existing room list, delete rooms from a roomlist, see the roomlist content and delete a roomlist.

To see the final result – the roomlist that will be imported into the Tigermeeting Admin app when attaching Microsoft365 or Exchange server calendar – **press 3**

🔎 Administrator: Windows PowerShell (x86)		×
List rooms in a RoomList		
Please, enter an existing RoomList identity. (example: myroomlist) : zoli-prodlab		
DisplayName PrimarySmtpAddress OrganizationalUnitRoot		
<pre>zoli-prod1 zoli-prod1@manufakturaltd.onmicrosoft.com manufakturaltd.onmicrosoft.com zoli-prod2 zoli-prod2@manufakturaltd.onmicrosoft.com manufakturaltd.onmicrosoft.com zoli-prod3 zoli-prod3@manufakturaltd.onmicrosoft.com manufakturaltd.onmicrosoft.com zoli-prod4 zoli-prod4@manufakturaltd.onmicrosoft.com manufakturaltd.onmicrosoft.com</pre>		
The operation has completeted		
ROOMLIST OPERATIONS MENU		
1 Create a new RoomList with rooms 2 Add rooms to an existing RoomList 3 List rooms in a RoomList 4 List all RoomLists 5 List all rooms 6 Delete a RoomList 7 Delete a room from an existing RoomList		
8 EXIT Enter your choice (1 to 8):		



IMPORTANT NOTE

In some cases, it takes time (sometimes even a few hours) to sync the Microsoft365 setup.

Results from the script operations are immediately visible in the Microsoft365 and Exchange Online Admin console - but the Azure app used for interfacing towards the Azure app consumers – like the Tigermeeting Admin app - does not see the updates immediately.

This is a known issue on Microsoft's side, and it takes time for the newly created room list changes to appear in the Admin App when attaching the calendar.

The symptoms are:

- the newly created room list will not appear in the Tigermeeting Admin app after a successful authentication.
- The newly added rooms to the room list are not listed after the authentication or reload room list operation.

So far, the only known workaround is to try to import the roomlists to the Tigermeeting Admin App a few hours later.

Please note: Exchange Servers – that use the very same script for room list management- are not affected by this bug.



Configuring Google Workspace

Use a Google-Workspace enabled account to synchronize the meetings.

Creating and modifying room resources will be possible only through the Google-Workspace admin pages. Tigermeeting, does not modify room resources, therefore the "room info" and the "capacity" are not editable in the Admin Application.

Navigate your browser to https://admin.google.com/u/2/ac/calendarresources/resources

Open Resource management

= 💽 Admin	Q Search for users, groups or settings					
- 2 Directory	Buildings and resources					
Users						
Groups	Buildings and	Resource management				
Organizational units	resources	Manage and create resources (e.g. meeting rooms), features and buildings				
 Buildings and resources 		OPEN				
Overview						
Manage resources		Room Insights Dashboard				
Room insights		Learn about usage and booking rates of meeting rooms				
Room settings		OPEN				
Directory settings						

Edit and Manage Buildings where the room resources are located.

Bu	ildings	<				
Se	earch tree					
•	All buildings					
	Building not set					
	Building A					
	Building B					
	Building C					
			Buildings and resources >	Resource management > Buildings -		
			Buildings	Add building Bulk upload Download all		
			Id	Name	Floors	Address
			Test	Building A	First floor, Second floor, Thir	Wall St, New York, NY, US
			Test1	Building B	First floor, Second floor, Thir	221B Baker Street, London, NW1 6XE, GB
	MANAGE BUILDINGS		Test2	Building C	First floor	Sergels Torg, Stockholm, 111 57, SE

Add new room resources



Buildings < Resource	resource	
Search tree + Ad	d a filter	
All buildings Resources	↑ Building	
Building not set		
Add resource		
Auto-generated resource name		
Building C-First floor-Los Angeles (30)		
Category * 🕜	Туре	
Meeting space (room, phone booth,)	e.g. phone booth, mother's	s room, bike etc.
Building *	Floor *	
Building C	First floor	Floor section
Resource name *		Capacity *
Los Angeles		30
Features		
Search features		
User visible description		
Add description (internal)		
* indicates a required field		

After adding all room resources, the list should be populated.

≡	💽 Admin 🔍	Search for users, groups or settings				Φ	8	0	ш	ager
â	Home	ildings and resources > Resource manager	nent > Resources -							
	Dashboard	Buildings <	Resources					<u>+</u>	=,	
* Å	Directory Users	Search tree	+ Add a filter							
	Groups	✓ All buildings	Resources 🛧	Building	Floor	Туре				
	Organizational units	Building not set	Szeged	Building A	First floor	a.				
	 Buildings and resources 	Building B	NewYork	Building B	Second floor					
	Overvlew	Building C	Pécs	Building C	First floor	1				
	Room insights		Stockholm	Building B	Third floor	÷.				
	Room settings		Budapest	Building B	First floor					
	Directory settings		Berlin city	Building A	First floor					
	Directory sync BETA		Rome	Building A	First floor					
• [0	Devices			De li di se d	First Occur					
• III	Apps		Madno	building A	First 1007	muge room				
• 0	Security	MANAGE BUILDINGS	Rows per page: 200 👻			I< Page 1 of	1 <		>	

When the calendar is attached in the Admin app - all room resources will be imported to the Tigermeeting system and will be available for attaching to a licenced screen device.



Please, whitelist the Google certified Tigermeeting app - if needed by your company policy. Google Workspace administrators for enterprise accounts can control which applications their users can access.

NOTE: for the authentication an Admin account needs to be used with admin permissions to handle read/write/delete calendar related operations

Authentication: Please **select all** options and accept in order to grant needed permissions for Tigermeeting application for normal operation.

ign in to Tigermeeting Joor@box.rs	By continuing, Google will share your name, email address, language preference, and profile picture with Tigermeeting. See Tigermeeting's Privacy Policy and Terms of Service. You can manage Sign in with Google in your Google Account.
Cancel	Continue
(United States)	Help Privacy
G Sign in with Google	
Tigermeeting wants access to your Google Account	Select what Tigermeeting can access Select all View calendar resources on your domain. Learn more View and manage the provisioning of calendar resources on your domain. Learn more See, edit, share, and permanently delete all the calendars you can access using Google Calendar. Learn more
	Because you're using Sign in with Google, Tigermeeting will be able to Associate you with your personal info on Google See your personal info, including any personal info vou've made publicly available
	See your primary Google Account email address
	You may be sharing sensitive info with this site or app. Learn about how Tigermeeting will handle your data by reviewing its terms of service and privacy policies. You can always see or remove access in your
	Google Account. Learn about the risks

The authentication needs to be performed under 60 seconds.





When detaching the calendar – all room settings configured in the Tiger Admin app will be lost – however the restore of a previous backup is able to retrieve the room settings.

 Igermeeting 	ala.						U	~
t	Settings				6	촙	\$	<u>*</u>
	LICENSES CALENDARS ROOMS	ADMIN USERS	ANALYTICS		SYNCHRONI	ZE CHANG	ES	
Ф.			×					
~	CALENDAR TYPE	EMAI	Do you really want to unlink your account?					
E	Google Workspace	igor	Meeting reservations will no longer be synchronized with your account and your room resources will be removed	REIMPORT ROOMS	DETACH C/	LENDAR	ወ	
I	MDADO		from the Tigermeeting config	_				
7			CANCEL YES, UNLINK MY ACCOUNT					

IMPORTANT NOTE

- All permissions need to be granted during the authentication. (see the figure at Google Calendar -> Authentication on the next page)
- **2.** There are 60 seconds granted for the authentication process after that time the authentication process will expire and needs to be repeated.

Instructional video

https://www.youtube.com/watch?v=j1cN9OalDwU



Configuring Google Calendar

Setup the system using a Google account to synchronize the meetings using an ordinary Google account.

Tigermeeting Admin app will manage the room resources. For each room created in the Tigermeeting application, a corresponding calendar resource with the same name is created in the Google Calendar, automatically.

The Google Calendar resources are manageable via Google admin pages. You may add meetings, recurring meetings, import iCalendars etc – that will be transparent via the meeting room devices assigned to the room resources.

Meetings booked via the devices will actually book the meetings in the corresponding resources calendar.

In case the Google Calendar is detached - Admin will have a choice to keep or delete the calendar resources created by the Tigermeeting Admin app.

Authentication

Please **select all** and allow access to Google resources. This is required for the normal operation.





Once the Google Calendar is attached – the room management will be possible.

CALENDAR TYPE	EMAIL	
31 Groupe Calendar	zoltan.arpadffy@gmail.com	DETACH CALENDAR 🔍
Google Calendar		

Create a new room simply by editing the device properties:





The calendars are immediately created in Google Calendar

The Blue room	11:00
Other calendars $+$ \wedge	12:00
Christian Holidays	
Holidays in Sweden	13:00
Muslim Holidays	14:00
Phases of the Moon	

The created calendar content and events ("The Blue room" in example) can be edited both online in Google Calendar and via the booking devices. The Overview screen shows its status like with any other calendar.

Once the Google calendar is detached, the Tigermeeting admin has a choice to remove these calendar resources- that are created by the Admin App- or keep them.



CALENDAR TYPE	imes Unlinking Google account	
31 Google Calendar	Meeting reservations will no longer be synchronized with your account and your rooms will be deleted from Tigermeeting config. Do you wish to delete the Google calendars associated to them as well?	DETACH CALENDAR D
	UNLINK AND DELETE ROOMS FROM TIGERMEETING CONFIG ONLY	
	UNLINK AND DELETE BOTH FROM TIGERMEETING CONFIG AND GOOGLE RESOURCES	
	CANCEL	

- Unlink and delete rooms from Tigermeeting config only (green colour) will not perform any changes in the user's Google calendar. Just the calendar in detached and the Tigermeeting configuration is removed.
- In the other case (red colour) the Admin app will clean up and delete all calendars from the user's Google Calendar the calendars that were created by the "create room" process. All other calendars will be left untouched. (this option is more "violent" as calendar removal is involved but this is a safe operation as the Admin App removes juts those calendars that we created by the Admin app cleaning up the user's calendar in order to avoid duplicate room names and other confusions)



Configuring iCalendar calendar

It is a simple and convenient way to expose pre-generated iCal files in a format that complies to the RFC 5545 specification via an ordinary web server. This is a very efficient and cost-effective way of distributing a huge number of relatively static calendars that suit well for school and university operations' use case.

iCalendar files are most often created by one of the widely available iCalendar generator programs. Tigermeeting's flexible design allows replacing and updating the iCal files. As long as the URL pointing to the file does not change, the room configuration does not need to be updated.

This feature opens a new era in cost effective meeting room management for all those customers who cannot appreciate or are not willing to pay high costs for a commercial online calendar service (like Google's or Microsoft's)



Choose iCalendar and synchronize the changes.

Igermeeting				—		\times
t	Settings	6	ᅶ	\$	•	
¥	LICENSES CALENDARS ROOMS ADMINUSERS ANALYTICS	SYNCLEON				
¢.		SYNCHRON		NGES		
~	CALENDAR TYPE					
E	17 ICal	RESET	ACCOUN	тФ		
Ĩ						

In the Network menu choose a device and edit the properties

	TIGER-ICAL-DEMO	
DEVICE PROPERTIES	4 PHEETPS IP: 192.1	TPV 10BDL3051 168.88.228 MAC: 00:24:67:3F:FD:F License
	CONNECTED	
TPV 10BDL3051T	SOFTWARE VERSION 3.4.0	FIRMWARE VERSIC FB04.0
NECTED DETACH LICENSE U WARE VERSION FIRMWARE VERSION	iCalendar url 1) TEST URL	DETACH ROOM
EATE A NEW ROOM	BASIC ADVANCED	
	C CLOCK DISPLAY	24h
		Hungarian
REE ROOMS TO ATTACH	CALENDAR SERVICE	iCalendar
		Not set
Close Attach room	ROOM INFO	Not set
>h	DISPLAY NAME	Not set

a) Create a new room by entering the name of the room.

b) It is possible to enter a URL pointing to an iCal file that provides calendar events for this room. Please test the URL validity and accessibility by pressing the TEST URL button. NOTE: the max size of the iCal file is 10Mb, however the iCal file can change – the Tigermeeting booking, and Overview screens will work well following the new file content as long the configured URL is reachable.





Synchrononize the changes to deploy the configuration to the devices



Test the configuration by changing the device's screenshot (or the device screen if it is nearby)



tiger

Common calendar functionalities

Tigermeeting is compatible with all major calendars. Calendars may have specific functionalities, but Tigermeeting always tries providing as common as possible set of features and functionalities across all calendars.

Rooms with several entrances

There are cases when a room has several entrances, it is desired to show the very same room status on several devices. Tigermeeting supports this functionality on all calendars.

On a device that does not have attached any rooms yet choose "show assigned rooms" Then it is possible to choose any room that has already been assigned a device. This allows to attach as many devices is needed to a single room (calendar resource)

DEVICE PROPERTIES	
NO ROOM ASSIGNED	
7 PHACTPS IP: 192.168.8	TPV 10BDL4151T 88.253 MAC: AA:BA:21:57:73:E2 LICENSED
CONNECTED	DETACH LICENSE
SOFTWARE VERSION 3.4.0	FIRMWARE VERSION 10BDL_3368 RELEASE-KEYS
SHOW/HIDE ALREADY ASSIGNED	ROOMS ON
NO FREE ROOMS TO ATTACH	4
PICK ALREADY ASSIGNED:	
O homedev1	
O homedev2	
O ZoTiger	
O ZoTiger2	
C ZoTiger3	
○ ZaTigard	
Close	Attach room

As a result of attaching multiple devices to a same calendar resource: all devices show the same status, next meetings etc



Room's "Display Name"

Calendar resource names can be very cryptic and generic organization wise following the organization's LDAP or Directory service naming conventions.

The default names can be easily overwritten by adding an alias/display name for a room.

Editable, descriptive "Room info"

Adding additional descriptive room information can help identifying or choosing the right room during booking the room.

Room information appears in the Overview screen as well.

		DEVICE PRO	PERTIES		
DEVICE PROPERTIES		homedev1			
homedev1		PHU-TPS	IP: 192.168.	TPV 1 88.247 MAC: 18:65:7	0BDL4551T 71:F1:5B:06 LICENSED
7 PHARPS IP: 192.168.	TPV 10BDL4151T 88.253 MAC: AA:BA:21:57:73:E2 LICENSED	CONNECTED		DETACH LICENSE	Պ
CONNECTED	DETACH LICENSE	SOFTWARE VER 3.5.0	SION	FIRMWAF 10BDL4551T REL	RE VERSION EASE-KEYS
SOFTWARE VERSION 3.4.0	FIRMWARE VERSION 10BDL_3368 RELEASE-KEYS			DETACH ROOM	Պ
		BASIC BOO	OKING ADVANC	CED	
BASIC BOOKING ADVAN	CED	📰 ENVIRONM DISPLAY MEETI	ENT NG TITLE	Table Office	
C CLOCK DISPLAY	24h	DISPLAY UPCON 15 MINUTES	MING MEETING	School	
	English	0-	_	Table	
CALENDAR SERVICE	Microsoft 365	ENABLE VIDEO I		Cabinet	
	20 🗘	┤┆┆┆	Settings d	istribution	
ROOM INFO	Classroom with a projector			_	
O DISPLAY NAME	Blue room - backdoor	Clo	ose	Save settir	ngs

Environment choice

Use the same solution in different or mixed environments. In offices book meeting rooms, in the schools show classrooms' timetables; somewhere else book tables, desks or cabinets if needed. Freely combine different devices with different screen sizes that fit best the given environment and purpose.

The environment parameter is assigned to a device giving a possibility for creating mixed environments: meeting rooms for teachers, classrooms for pupils and bookable desks for special classes – for example.



Support for dedicated screens

There are many specialized screens - meeting room displays- on the market

Tigermeeting has a native support for some of them, like Philips TPV 10 inch series screens, ProDVX screens, Aurora multimedia devices, IAdea screens etc.

The supported devices are able to perform most of the operations – though it may vary between the suppliers and models:

- Screenshot
- Reboot
- LED side and backlights (colors change, LEDs on/off, LEDs luminance
- Tigermeeting software (APK) upgrade
- Firmware upgrade

Led backlight color

Led back lights and the theme colors help the user to determine the room's state.

Green light means that the room is now available.

Yellow: the rooms is about to get occupied (time limit can be set in the Admin application).

Red indicates that the meeting room is now busy and cannot be booked. However – on each booking screen the user can find the list of other available rooms and on an easy way book a meeting remotely.

The default LED backlight color codes used are the following:

- Red: 0xFF0000
- **Green**: 0x00FF00
- Yellow: 0xFFDF00

These colors can be changed from the Admin App for those devices that support the full RGB range.

The red bar below the color input shows if the entered value is correct RGB value or not. In case of incorrect input, the default color is used.





PRODVX APPC-10SLBE IP: 192.168.88.220 ID: 87592FC49D85E1AF LICENSED					
CONNECTED	DETACH LICENSE				
SOFTWARE VERSION 3.5.1	FIRMWARE VERSION APPC-10SLBE.PRODVX.LVDS- 1280X800- KD_KD101N9_40NA_A45_A1.V- B0.4.00.04I.20231214				
	DETACH ROOM				
BASIC BOOKING ADVAN	CED				
CONTRACTION DEVICE TIME ZONE	Europe/Amsterdam				
B ENVIRONMENT	Office				
DISPLAY UPCOMING MEETING 15 MINUTES					
LED BARS	All ON				
	Medium				
O LED COLOR RED	FF0000				
O LED COLOR GREEN	00FF00				
O LED COLOR YELLOW	FFBF00				
ENABLE VIDEO PLAYER	OFF				

Led luminance

The LED bars luminance/brightness can be set between Low, Medium, and High.

Led light positions

Tigermeeting supports the following Led light positions:

- o All OFF all LEDs are turned off
- o All ON all available LEDS are turned on
- $\circ~$ Only sides only the LEDs on the screen left and right sides are lit
- \circ Only top only the LED stripe on the screen's top is used
- \circ Only bottom - only the LED stripe on the screen's bottom is used
- Only corners only the screen corners are lit (very limited number of devices are able to handle this – an example is the ProDVX APPC-10SLBE)



PRODVX APPC-10SLBE IP: 192.168.88.220 ID: 87592FC49D85E1AF LICENSED					
CONNECTED		DETACH LICENSE			
SOFTWARE VERSION 3.5.1		FIRMWARE VERSION APPC-10SLBE.PRODVX.LVDS- 1280X800- KD_KD101N9_40NA_A45_A1.V- B0.4.00.04I.20231214			
		детасн коом			
BASIC BOOKING	ADVANCE	ED			
CONTRACTOR DEVICE TIME ZONE		Europe/Amsterdam			
B ENVIRONMENT	E C	Office			
DISPLAY UPCOMING MEETING 15 MINUTES					
LED BARS		All ON			
		All ON All OFF			
O LED COLOR RED					
O LED COLOR GREEN		Only sides			
	"	Only top			
ENABLE VIDEO PLAYER	0	Only bottom			
titit Se	ettings dis	Only corners			
Close		Save settings			

IMPORTANT NOTE: If the devices do not have all the requested LED bars, or do not support dividing the LED bars to regions – the devices' LED bars might not behave as expected. In that case, please use All ON as a safe fall back.

If the screen is not fully supported by the Tigermeeting Android application – the LED bars will not be functional.

Please consult the Tigermeeting Customer Support if your devices are supported or not before the purchase.



Theme configuration

Tigermeeting suite allows customers to change the booking-screen's home screen layout by changing the theme, the background image and the company logo - making the devices' appearance personal and branded.

There are different themes to choose from - the default theme and many others, inspired by Tigermeeting's excellent designers and customer ideas around the world.

New themes are added continuously and dynamically - on demand or when new design ideas arise - without any need for software upgrade. Themes' templates and the customer custom backgrounds are stored in the Tigermeeting Cloud – therefore this operation requires access to the https://tigermeeting.app URL through the firewall.

On request - bespoke themes can be crafted and enabled for the dedicated customers or allowed to be common for all. Please, ask the Tigermeeting support for more information.



Theme background image configuration

Every theme supports background image change. Upload the desired background image in the Admin app -> Themes menu

Image file requirements:

- PNG format
- max file size 4Mb.
- resolution and ratio that match the used screen sizes.

For Philips screens: ratio 16:9, size 1280 x 800 px.

For other Android devices, please choose an image that matches the screen ratio and the resolution.



Every theme can have its own custom, customer specific background, but a new background upload to the theme will override the previous image for that theme.

Restore the theme's original, default background image using the RESTORE button.

SYNC with devices in order to commit changes and start the theme change process on the devices. The devices will first download the theme from the cloud server and apply them. **NOTE:** devices need to have access to the https://tigermeeting.app cloud server.



Device changes - replaces

There are situations when some or all devices need to be replaced.

Tigermeeting licenses are perpetual, and they are tied to the devices' MAC addresses or Ad IDs within an organization

The organization owns the licenses, therefore, it is possible to detach licenses from the configured devices and attach the same licenses to other, new devices as long the number of total/available licenses are within the organization's purchased range.

- **1.** Install the Tigermeeting APK to the new devices and let they appear in the Admin App
- In the Network tab, edit the device properties and DETACH the license from the old devices – on by one.



3. Assign the just freed licenses to the unlicensed screens in Settings->Licenses tab

🕼 Tigermeeting					– 0	\times
t	Settings				లి చ 💠 单	
₹¥	LICENSES	CALENDARS ROOMS	ADMIN USERS	ANALYTICS		
¢.				SYNCHRONIZE CHANGES	ADD LICENSES	
~	LICENSE TYPE	OWNER	COPIES		BOOKING SCREEN (FREE: 8)	
	Overview screen		8 / 17	DISTRIBUTE	TPV 10BDL3051T	
Ĩ	Booking screen	Manufaktura	20 / 29	DISTRIBUTE		
·**					Close Activate	

- 4. Remove the "unlicensed" devices in the Network tab
- **5.** Configure the licensed devices and finish with SYNCHRONIZE to deploy the changes.



Software and firmware upgrades

Software upgrade

Software upgrades are supported on almost all devices and Tigermeeting is proud to offer free software upgrades for all customers.

•••				Tigermeeting				
t	Network					e	ۍ د ا	: ±
2	ALL FREE DEVICES	CONNECTED		100PADE E				
¢ ₀	Show 10 entries			UP DUDE 1				
<u>~</u>	DEVICE C ROOM	IP / MAC ADDRESS ^	STATUS	SOFTWARE VERSION	FIRMWARE VERSION ©	DEVICE UPTIME 0	ACT	IONS
E	Not assigned	IP: 192.168.88.211 ID: db159be1353edf28	CONNECTED	3.5.1-426 📩	smarc_rzg2I-userdebug 1	1d 3h 19m	/ :	
I	No roomlist	IP: 192.168.88.212 ID: ff0ee368ad0c1724	CONNECTED	3.5.1-426 🕹	APPC-15XP_R23-series.Pr	0d 2h 20m	1:	

The new android software availability will be show up in the Admin App ->Network list and the Admin user have an opportunity to upgrade one device (by pressing the red upgrade sign in the screen row) or all devices (by pressing on UPGRADE ANDROID APPLICATIONS)



Software version changes over time are tracked in Analytics -> device ID selector.

The software release notes are published in the Admin application under the About menu

IMPORTANT: Tigermeeting Android APK is signed by the Tigermeeting signature. This signature is crucial during software upgrades. The software upgrade orchestrated by the Admin App will fail in case the signature is removed, re-signed or changed for whatever reason.


Firmware upgrade

Firmware upgrades are available just for the supported devices. Philips Android based screens are one of them.

Tigermeeting will release the firmware updates once the firmware has been tested and passed the Tigermeeting Quality assurance rigorous tests.

The firmware availability will be show up in the Admin App ->Network list and the Admin user have an opportunity to upgrade one device (by pressing the red upgrade sign in the screen row) or all devices (by pressing on UPGRADE FIRMWARE VERSIONS)

				Tigermeeting					
t	Network					e	2	¢ ±	•
75	ALL FREE DEVICES	CONNECTED		LIBORAL				CE I	
Ф.	Show 10 entries			UPONAL		DE ANDROID AFFEIGATIONS			
~	DEVICE C ROOM	IP / MAC ADDRESS $\hat{\boldsymbol{\boldsymbol{\varepsilon}}}$	STATUS	SOFTWARE VERSION 0	FIRMWARE VERSION ^	DEVICE UPTIME 0	,	ACTIONS	
iu.	Not assigned	IP: 192.168.88.247 MAC: 18:65:71:F1:5B:06	CONNECTED	3.5.1-427 📥	10BDL4551T release-keys	0d 2h 50m	/	:	
I	PHATPS Not assigned	IP: 192.168.88.253 MAC: AA:BA:21:57:73:E2	CONNECTED	3.5.1-426	Update to FB01.16 10BDL_3368 release-keys	3d 21h 53m		:	

Firmware version changes over time are tracked in Analytics -> device ID selector.



NOTE: Tigermeeting does not take any responsibility for any damage created by the firmware upgrade. The firmware itself is an unchanged, signed package from the screen manufacturer.

Read more about in the Terms of Service document: https://tigermeeting.app/terms-of-service



Troubleshooting

Both the Admin app and each of the devices have troubleshooting logging enabled. These logs can be very useful when troubleshooting some eventual issue.

Download Admin log

Download the Admin App logs from the settings menu (the gear symbol in the upper right corner)



The downloaded log file has a descriptive filename like Tigermeeting-AdminLog-29-02-2024-2343.log. Please do not rename or edit the file content.

Download device log

Download device logs by choosing the device from the Network menu and clicking on the three dots at the end of the row.

Please note that the device needs to be in "CONNECTED" state.

·	Not assigned	IP: 192.168.10.236 ID: 33c5392482abc36c	CONNECTED	3.3.1-399	rk312x-userdebug 5.1.1
	No roomlist	IP: 192.168.10.154 MAC: 18:65:71:7E:30:83	CONNECTED	3.4.0-424	FB04.04 Download log
	Not assigned	IP: 192.168.10.216 ID: 5767d9de46ca12b5	DISCONNECTED	3.2.0-386 📥	52.1.A.3.49 View screenshot

The downloaded log file has a descriptive filename like Tigermeeting-DeviceLog-(18-65-71-5E-89-C5)-29-02-2024-2345.log. Please do not rename or edit the file content.

The logs are encrypted text files that are safe to send by email. Please, send them to the Tigermeeting Customer support when requested.



View device information

There are cases when it is useful to see more details about the device.

Use function "View device information" that gathers relevant hardware, software and vendor specific API related information.

	Not assigned	IP: 192.168.88.216 ID: 8fdf8cd7963c1f63	DISCONNECTED	3.5.1-425 📥	2.1.3-56	LICENSED	3d 21h 20n	Restart device Download log
4 PHM-tPS	Stockholm	IP: 192.168.88.208 MAC: 00:24:67:3F:FD:F0	CONNECTED	3.3.5-425	FB04.05	LICENSED	0d 20h 39n	View screenshot
8 PHU-tps	Budapest	IP: 192.168.88.247 MAC: 18:65:71:F1:5B:06	CONNECTED	3.5.1-427	10BDL4551T release-keys	LICENSED	Od 1h 9m	View device into

If the device is in "connected" state the information will be presented shortly: in a scrollable format.

Tigermeeting									-	0	×
t	Netwo	ork						0	土	\$	•
X	ALL	FREE DEVICES CO	NNECTED DISCONNECTE	D							
¢,	SAMOWING	NewYork	IP: 192.168.88.241 ID: 6efc1837009d9e7	CONNECTED 3.3.5-425 KOT49H.T311XXU	JBNK2	LICENSED	0d 20h 41m		<i>.</i>		
~	4 PHALIPS	Not assigned	IP: 192.168.88.252 MAC: 00:24:67:3F:FD:F	Device Info - 192.168.88.247	٦	LICENSED	2d 23h 17m		<i></i> :		
E	PL DVA.	London	IP: 192.168.88.219 ID: 9823c0d2ccf35ee1			LICENSED	0d 1h 7m		1 :		
Ĩ	SAMGUNG	Not assigned	IP: 192.168.88.209 ID: ebb9fec03eb921e7	IIGERMEELING Version: Tiger v3.5.1 (build 427) Build: DEBUG - for development and QA only	F)	XX licensed	3d 2h 39m		1 :		
7	IA	Not assigned	IP: 192.168.88.217 ID: 6a8565d7c57b6bc9	Last Startup: 2024-04-07T08:59:10.972+02:00 Last App Update: 2024-04-07T09:11:11.267+02:00	LICENSED	LICENSED	3d 11h 12m		<i></i> :		
	O verView	No roomlist	IP: 192.168.88.239 MAC: 18:65:71:7E:2E:E	NETWORK IP Address: 192.168.88.247 Readcast Address: /102.168.88.255	II	LICENSED	4d 13h 0m		<i></i> :		
	I	Not assigned	IP: 192.168.88.216 ID: 8fdf8cd7963c1f63	DEVICE		LICENSED	3d 21h 23m		<i></i> :		
	4 PHUEIPS	Stockholm	IP: 192.168.88.208 MAC: 00:24:67:3F:FD:F	Device Id: 18:05/71:F1:58:06 Manufacturer: TPV Model: 10BDL4551T	I	LICENSED	0d 20h 42m				
	8 PHUEIPS	Budapest	IP: 192.168.88.247 MAC: 18:65:71:F1:5B:0	Brand: Philips Product Name: rk3288 ∢	▼ ≩y	S LICENSED	0d 1h 12m		1 :		
	SAMERIC	Berlin city	IP: 192.168.88.240 ID: bfcc3651d61b24dc	RELOAD CLOSE	20	QJ3 LICENSED	6d 11h 2m				
About	14 total						I≪ <	1	2 >	M	

The information contains vendor specific API information that could be valuable during troubleshooting. Please, share this information with Tigermeeting support when requested.

```
VENDOR API getDeviceInfo = { "status": "OK", "deviceKey": "ProDVXapi",
 "deviceManufacturer": "ZDMID", "deviceModel": "APPC-7XPL", "deviceProduct":
 "rk3368", "deviceDisplay": "APPC-7XPL.AP6255.ProDVX.LVDS-1024x600.HW-
V1.1_1.11.0e.A23_04", "devicePlatform": "rk3368", "androidSdk": 27,
 "androidVersion": "8.1.0", "serialNumber": "7XPL22900181", "ip4Address":
 "192.168.88.219", "screenBrightnessInternal": 200, "screenBrightness": 78,
 "showSystemBars": false, "touchScreenEnabled": true, "deviceInteractive": true,
 "apiAppPackageName": "com.prodvx.api", "apiAppVersion": "1.0",
 "apiAppVersionCode": 20, "apiAppSystemSigned": true, "apiAppSystemFlagged": true,
 "apiAppSystemUser": true }
```

Tigermeeting room parameters

In Tigermeeting infrastructure the configuration could be shared between the devices (set distribution) or every device can have its own settings – from the language, to the led or booking behavioral parameters.

Under Analytics -> deviceID selector there are presented room specific configuration details.

key	value
booking_mode	today
clock_type	24h
calendar_sync_interval	10000
check_app_state_interval	1000
check_new_booking_interval	10000
confirm_after_start_interval	600000
confirm_before_start_interval	900000
confirm_interval	900000
default_confirmation	0
default_duration	15
device_id	18:65:71:F1:5B:06
duration_step	5
enable_cancel	1
enable_disable_confirmation	1
enable_reservation	1
greeting_text	Conference rooms
language	en
roll_step	5
screen_saver_interval	3600000
screen_saver_enabled	0
show_title	1
timeline_duration	4
timezone	Europe/Belgrade

Tigermeeting room parameters

This information can be valuable when troubleshooting the system.

Please share this information with Tigermeeting customer support if this information is asked.



Maintenance mode

Tigermeeting solution is most often used in public spaces – it is necessary to take security measures that prevent malicious attacks and screen abuse.

Therefore, Tigermeeting application uses standard Android technology to occupy the whole screen and disable access – like:

- SYSTEM_UI_FLAG_LOW_PROFILE: Status bar icons are dimmed.
- SYSTEM_UI_FLAG_HIDE_NAVIGATION: The navigation bar is hidden.
- SYSTEM_UI_FLAG_FULLSCREEN: The status bar is hidden.
- SYSTEM_UI_FLAG_LAYOUT_STABLE: Helps maintain a stable layout.
- SYSTEM_UI_FLAG_LAYOUT_HIDE_NAVIGATION: The navigation bar will overlay the app's content.
- SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN: The status bar will overlay the app's content.
- SYSTEM_UI_FLAG_IMMERSIVE: The user can reveal the system bars with a swipe gesture, but they will be hidden again automatically.

• SYSTEM_UI_FLAG_IMMERSIVE_STICKY: Similar to SYSTEM_UI_FLAG_IMMERSIVE, but the system bars stay visible briefly.

In the same way if the device supplier provides an API interface for blocking unwanted screen access – they are also used.

The user may experience that the Tigermeeting occupies the whole device, and the device is inaccessible. In most cases this is not true. By studying the supplier's device manuals, may reveal that there are some button combinations, password protected dialogs that can bring up the system bar and buttons to perform a device maintenance operation.

There are cases where the supplier API blocks the maintenance, and an API call is needed to unlock the screen. (ProDVX devices are an example).

Pécs	IP: 192.168.88.200 ID: 87592fc49d85e1af	CONNECTED	3.5.2-434	APPC-10SLBe.	ProDVX.LVDS
Madrid	IP: 192.168.88.204 ID: 797259278f446f60	CONNECTED	3.5.2-434	3.4.1-146	Download log
Rome	IP: 192.168.88.206 ID: 1508b6ae23a0678f	CONNECTED	3.5.2-434	2.3.0-146	View screenshot View device info
10 total					Maintenance mode

For supported devices a "Maintenance mode" is shown.

Have the device around – as on some devices the system bar will appear just briefly, or a swipe down is needed for the system bar to appear.

NOTE: after the maintenance, the device needs to be rebooted to restore the protection



Hardware metrics

When the Analytics feature is turned ON, valuable hardware related information is available for troubleshooting purposes. The devices send the measurements about every two hours or when an event happens. This information is tied purely to the MAC address or the device's Ad ID



Please, read more details about in the privacy policy and the GDPR compliance page https://tigermeeting.app/en/features/gdpr-compliance

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Device discovery issues

If the Admin app is started on the same network segment where the screens/devices that are running Tigermeeting application, the devices are automatically discovered.

🕼 Tigermeetir	ng			-	
t	Network		દ) 🕹 :	¢ ±
Ż.	ALL				
¢,	Show 10 entries	Discovering network		ADD DEVIG	
~	DEVICE ROOM		FIRMWARE VERSION \$	A	TIONS
E	No devices found yet, scanning in prog	Please wait O			
Ĩ	0 total				

If no devices are discovered, perform the following tests:

- **1.** The network satisfies the Network requirements (see at the beginning of the document)
- **2.** The Admin app is allowed to use the network (Windows may ask for this permission to allow an application through the Windows firewall)
- 3. Make sure the devices have network access (test with ping command for example)

VPN connections and routers usually do not forward the network broadcast packages, in those cases a device can be added via the **ADD DEVICE** button by entering the device's IP address.

If the device IP is correct and Tiger APK is properly running on the device – and regardless the Admin app is not able to make contact with the device, please open a browser and enter the following URL: http://device_IP_address:8080 or port 6026 (for IAdea screens). The expected response is in JSON format like:



If the response is different or times out – there is no communication between the Admin app and the Tiger APK on the device. Please, send the Admin log to the support for analysis.



Network reboot

There are cases where the Admin wants to perform network wide operations on all devices.

These operations include:

- **Reset network** reset the Tigermeeting the parameters on all devices to defaults.
- **Backup network** perform a backup of the current configuration
- **Restore network** restore the configuration from a previous backup.
- **Reboot all devices** perform an instant reboot on all devices.

🚛 Tigermeeti	ng					
t	Network					ల చ భ ≞
		CONNECTED				Set company logo
Ъ.	ALL FREE DEVICES	CONNECTED				Download Admin log
¢ ₀	Show 10 entries					Reset network
			074710			Backup network
~	¢	IP / MAC ADDRESS 🤟	STATUS	SUFTWARE VERSION -	FIRMWARE VERS	Restore network
E	Autora Autora	IP: 192.168.88.196 ID: db159be1353edf28	CONNECTED	3.5.2-436	smarc_rzg2l	Reboot all devices
Ě	IADEa 2	IP: 192.168.88.213 ID: 797259278f446f60	CONNECTED	3.5.2-436	3.4.1-146	1

While the reset, backup and restore operations are intuitive the reboot requires some explanation.

М 1	etwork		9	a 🌣
ALL	FREE DEVICES	CONNECTED		
			A	DD DEVICE
Show 10	entries	REBOOT NETWORK DEVICES		ACTIONS
¢	Room	This operation will try to reboot all devices on the network. But just the supported devices will be actually rebooted. All current		Action
Muror	Autora	settings are kept.	smarc_rzg2l-userdebug 1	1:
	IADEa 2	REBOOT CLOSE	3.4.1-146	<i>i</i> :

While the customer expectation is that the command will reboot all configured devices, the actual outcome will be that just the supported devices will perform the reboot. The Tiger Android App is not a root application. It runs in the user space therefore it does not have permission to perform system operations on the devices where the vendor does not provide an interface for it.

Supported devices include all Philips, ProDVX, IAdea and Aurora Multimedia screens



GDPR statement

Tigermeeting products use a unique, high watermark distributed database technology - therefore the information and the configuration itself are distributed between the screen devices within the local network infrastructure only.

There is no need for on premises, central or any external data store - therefore it does not exist.

Booking and overview screens

- Calendar operations - like booking on the screens and presenting the calendar events on the booking and overview screens are API based request/response type of operations between the online calendar supplier (like Microsoft or Google) for display purpose only. No personal data is stored on the devices or transferred elsewhere.

Admin App

- The Tigermeeting Admin app - itself - becomes part of the distributed database just when an Admin logs in on the network - and no information is stored on the Admin's computer.

- However, the Admin users' login credentials and the customers' license information are stored in the Tigermeeting cloud (license server, how we call it) in hashed format using high security cryptography algorithm. This is information used for the admin authentication.

In case, the customer chooses so - the Tigermeeting cloud can be used to store the customers' network backup - the infrastructure settings snapshot in encrypted format
that is used for network restore functionality.

Analytics

- If the customer chooses so - Tigermeeting cloud is used to store the collected, anonymous meeting room usage information that is presented under the meeting room Analytics pages - visualizing the room usage statistics, booking tendency, company's booking behavior providing useful information for better meeting room utilization and the hardware health itself.

- The events are anonymous - in a sense, that they are tied to the devices' MAC address or Ad ID only.

- The events are sent by the Tigermeeting applications when the analytics/event log

tiger

feature is turned ON and the devices are operational during the event. For more information, please read the Admin App documentation and the Analytics disclaimer at the bottom of every Analytics page.

Web cookies

- Tigermeeting does not use any cookies that contain personal data- read more about in https://tigermeeting.app/cookie-policy

On explicit request, all accumulated event logs and other customer data can be requested to be presented/delivered or permanently deleted.

For more information, please read the Tigermeeting Privacy Policy https://tigermeeting.app/privacy-policy - that complies with GDPR, CCPA, PIPEDA, CDR, LGPD and POPI regulations.



Ask for DEMO licences

DEMO licenses are fully functional production licenses with a limited time validity. There is no payment involved - neither during the DEMO licenses request or after when the DEMO licenses expire.

The idea is that potential customers are able to test the power of the Tigermeeting solution in their own environment with their own equipment.

When the DEMO license validity expires. The screens simply stop using online calendars and fall back to the initial DEMO mode - without making any harm or change in the customers' environment.

The customers can any time - under the evaluation/trial period or after the DEMO licenses have expired - order perpetual licenses and continue using the Tigermeeting infrastructure with full power and functionality again. Ask for a free DEMO license to test the Tigermeeting products in your own environment before the purchase at https://tigermeeting.app/en/contact.

DEMO licenses are usually valid for 30 days but this is not a hard limit. DEMO license validity can be easily extended if more time is needed for the evaluation. The validity and the distribution of the licenses can be checked in the **Admin App -> Analytics -> Company**. analytics report.





Contact information

Email: info@tigermeeting.appWeb: https://tigermeeting.app/en/contactCustomer Support: support@tigermeeting.app

More information can be obtained by clicking on the "About" menu point in the Admin Application.



TIGERMEETING ADMIN VERSION: 3.3.3

Tigermeeting AB

A Swedish company, that brings high-end meeting management and calendar products to affordable level. Please, take contact with us for any inquiry.

Address: Edbovägen 47, 142 63 Stockholm, Sweden info@tigermeeting.app | support@tigermeeting.app

Release Notes Terms of Service Customer Support Privacy Policy Open Source Licenses Cookie Policy

Let us shine up your meeting rooms. Global presence with Scandinavian quality.

Social media

Follow us on social media to get event updates and product news above the regular release newsletter.

Facebook https://facebook.com/tigermeeting/
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