CALLISTO

CRUISE ALARMING

CRUISE ALARMING MOBILE MANUAL

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Overview

This chapter describes the purpose of the Cruise Alarming Mobile application, its intended audience, and its platform and version requirements.

Purpose

The Cruise Alarming Mobile application is designed to receive and display alarms transmitted from the Alarm Service application. By implementing the CiscoIPPhone XML protocol, it offers a flexible solution that can serve as a complete replacement for, or operate in parallel with, existing Cisco Wireless IP phones.

Audience

This manual is specifically intended for users of the Android client application.

Documentation Reference

It is assumed that the Alarming Mobile application has been configured correctly and is fully operational prior to using this guide. Detailed instructions for the configuration process are available in the **Application Configuration Manual**.

Platform Requirements

Item	Requirement
Platform	Android mobile devices only
Application version	2.0.0
Protocol	CiscoIPPhone XML
Backend service	Callisto Alarm Service with Phone Services URL endpoint

Installation

This chapter covers how to install the application, configure the Phone Services URL, grant the required system permissions, and set up alarm sound files.

Installation Methods

The application can be installed using any standard Mobile Device Management (MDM) platform, or manually by side-loading the generated .apk file from the device file system.

Phone Services URL Configuration

Upon the first successful launch after installation, all required permissions must be granted. The immediate next step is to configure the **Phone Services URL**. This URL connects the client application to the backend service and allows it to retrieve and display alarm history for the associated user groups.

The URL can be set in two ways:

- **Via MDM tool** — recommended for managed deployments. MDM configuration has higher priority and overwrites user configuration.
- **Manually by the user** — recommended for testing purposes only.

Note: To enable the *Alarm Groups Log in/out* feature, add the version=2 parameter to the base URL.

MDM Configuration

The application supports managed configuration via the service_address attribute in the MDM IT admin console. The following parameters can be configured:

Parameter	Type	Description
service_address	string	Phone Services URL endpoint
always_play_sound	boolean	Play sound even in silent/vibrate mode
notification_sound_volume	integer (0–15)	Notification volume level
save_logs	boolean	Save application logs to file

Parameters set within the managed configuration have **higher priority** and cannot be changed via Intents.

Example VMware Workspace ONE Custom Settings XML:

```
<characteristic
  type="com.airwatch.androidwork.app:com.callistocruise.alarming"
  uuid="568bc89d-1df8-4ce9-a041-e5a24acdb7ec">
  <parm name="service_address"
    value="http://CALLISTO_IP_ADDRESS/Applications/Inbound/Alarm%20Service/src/
PhoneListAlarms.asp?version=2"
    type="string">
  <parm name="always_play_sound" value="True" type="boolean">
  <parm name="notification_sound_volume" value="10" type="integer">
  <parm name="save_logs" value="True" type="boolean">
</characteristic>
```

If the MDM console cannot read the configuration schema, use an Intent broadcast instead.

SOTI example:

```
sendintent -b "intent:#Intent;action=com.callistocruise.alarming.intent.action.
SET_HOST_ADDRESS;S.service_address=http://CALLISTO_IP_ADDRESS/Applications/Inbo
und/Alarm%20Service/src/PhoneListAlarms.asp?version=2;end"
```

VMware Workspace ONE example:

```
mode=implicit,broadcast=true,
action=com.callistocruise.alarming.intent.action.SET_HOST_ADDRESS,
extraString=service_address=http://CALLISTO_IP_ADDRESS/Applications/Inbound/Ala
rm%20Service/src/PhoneListAlarms.asp?version=2
```

Sound Configuration

The application supports custom alarm sound files per alarm group. To use different sounds:

1. Place MP3 files in: /storage/emulated/0/Android/media/com.callistocruise.alarming
2. This folder is created automatically on the first app launch.
3. File names must exactly match the sound name defined in the group configuration.

Always Play Sound

The app can play sound even when the device is in Vibrate or Mute mode (subject to DND Alarms exception). Configure via MDM (always_play_sound attribute) or via Intent:

```
sendintent -b "intent:#Intent;action=com.callistocruise.alarming.intent.action.
SET_ALWAYS_PLAY_SOUND;B.always_play_sound=true;end;"
```

Note: This option has no effect if the user has turned off Show Notifications for the app, or if the Alarms DND exception is disabled in phone settings.

Notification Sound Volume

Volume can be set from 0 (minimum) to 15 (maximum). Configure via MDM (notification_sound_volume attribute) or via Intent:

```
sendintent -b "intent:#Intent;action=com.callistocruise.alarming.intent.action.
NOTIFICATION_SOUND_VOLUME;i.notification_sound_volume=15;end;"
```

Required Permissions

To ensure the application functions correctly and provides continuous alarm monitoring, the following permissions must be explicitly granted by the user at runtime.

Notification Permission

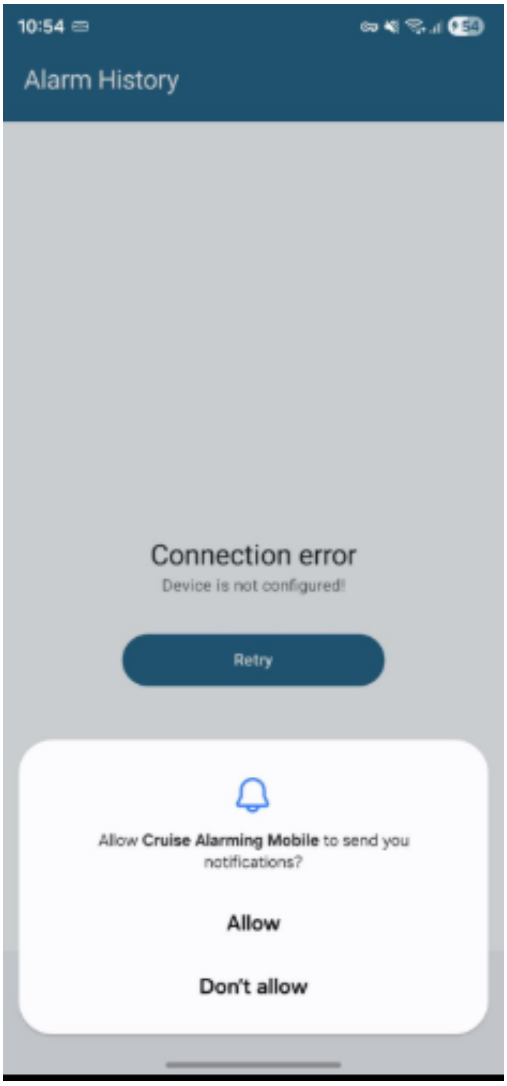
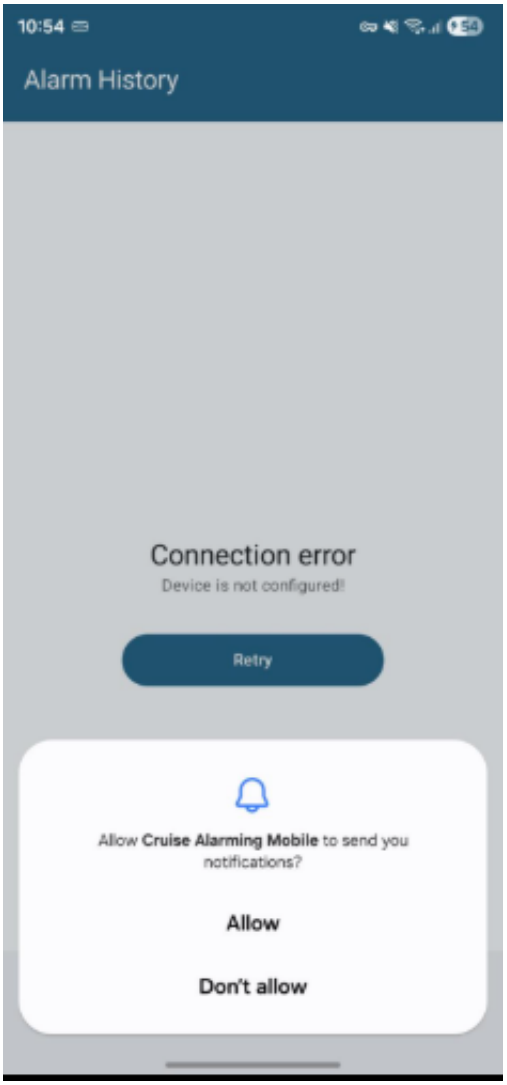


Figure 1: Notification Permission Dialog



Attribute	Detail
Type	Runtime Permission
Action	Tap **Allow** in the system dialog.
Impact if denied	No visual notifications or notification sounds will be received.

Appear on Top / Display over other apps

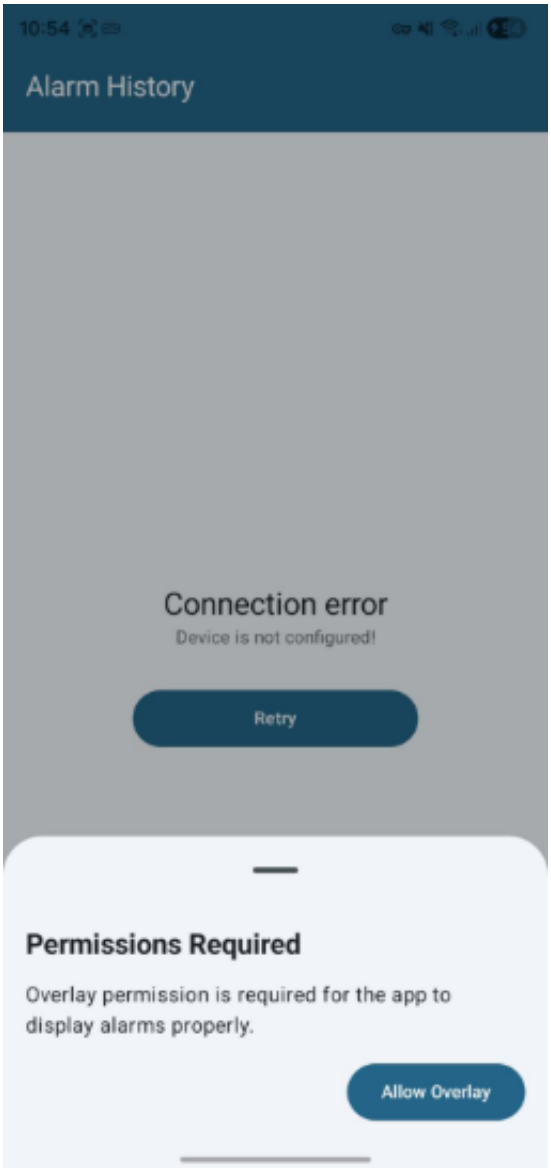


Figure 2: Overlay Permission Dialog

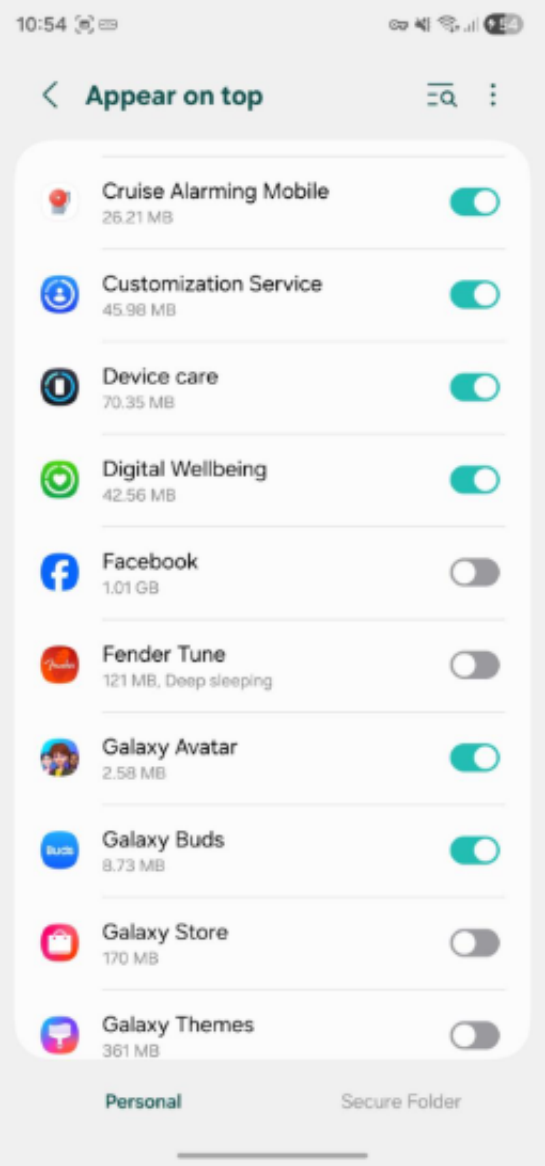


Figure 3: Appear on top — settings screen

Attribute	Detail
Type	Special Permission
Action	Tap **Allow Overlay**, then enable the toggle in the settings screen.
Impact if denied	Service will not restart automatically on system boot; alarms may not display over other apps.
Note	Required for Android OS versions higher than 10.

Do Not Disturb (DND) Access

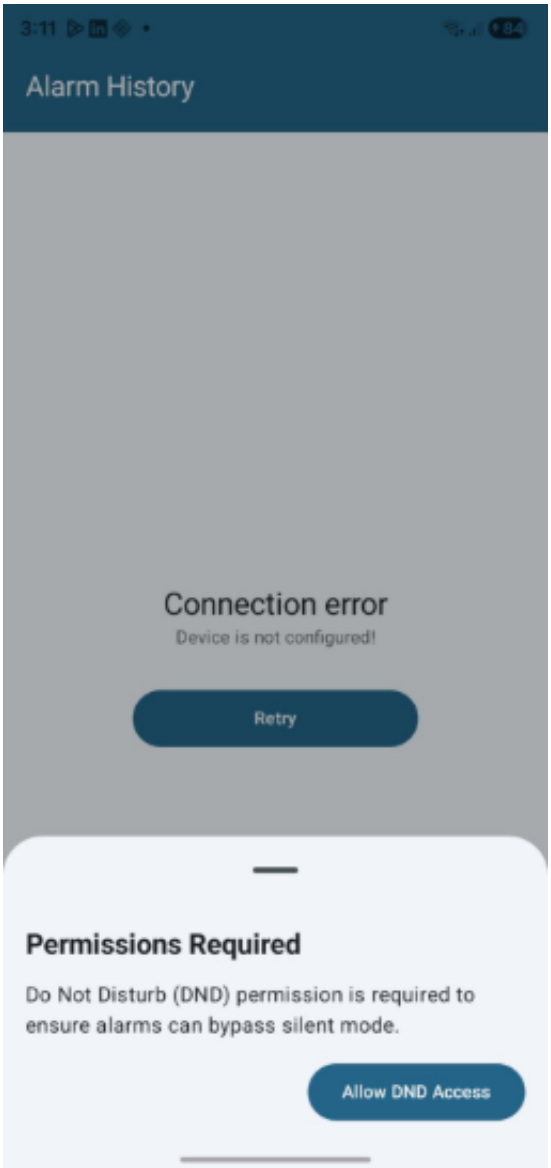


Figure 4: DND Access Dialog

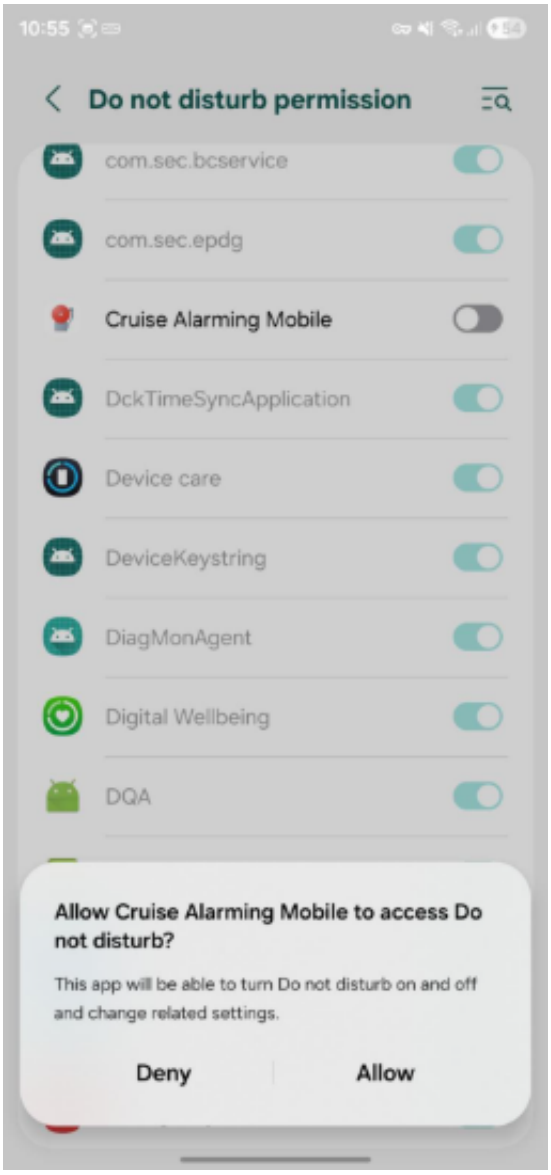


Figure 5: Do Not Disturb permission settings screen

Attribute	Detail
Type	Special Permission
Action	Tap **Allow**.
Impact if denied	Alarms will be silenced by DND mode; the *Always Play Sound* feature will not work correctly.

Battery Optimization

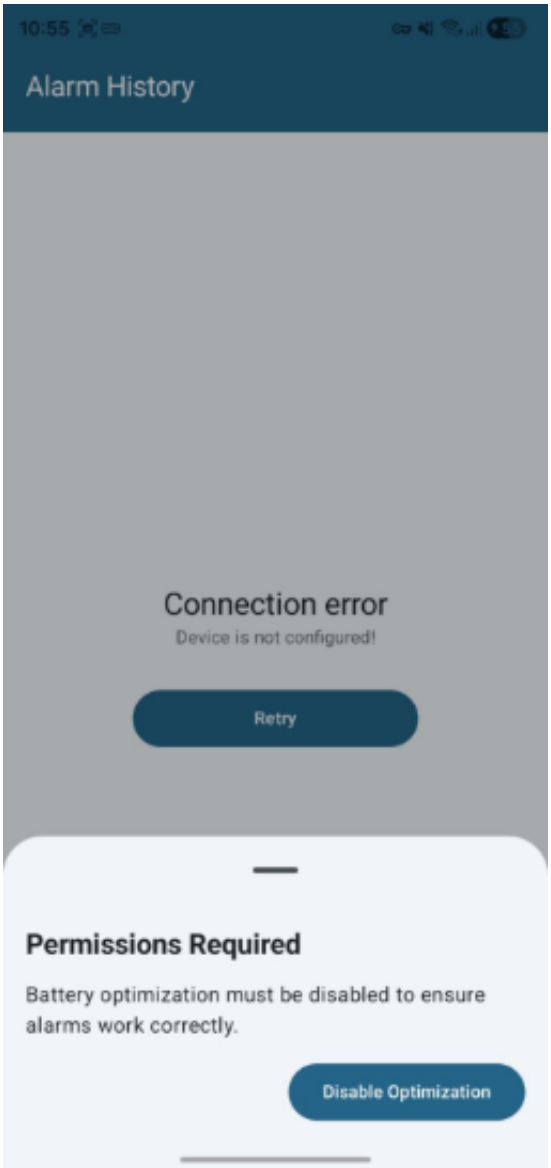


Figure 6: Battery Optimization Dialog

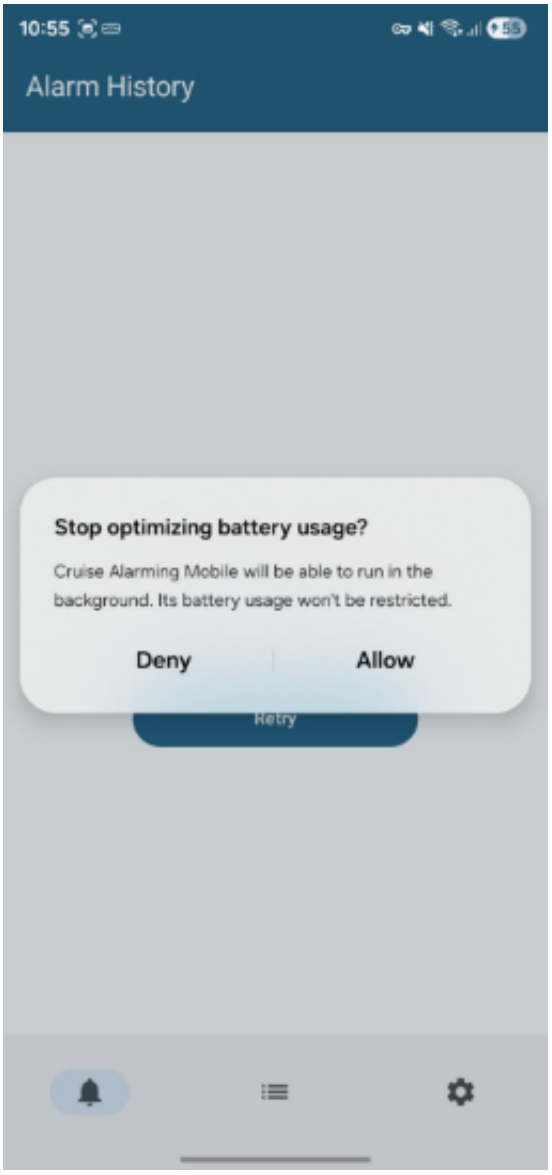


Figure 7: Stop optimizing battery usage dialog

Attribute	Detail
Type	Special Permission
Action	Tap **Allow** (Disable Optimization).
Impact if denied	The OS may restrict background operation, preventing timely alarm reception.

Background Service Behavior

The Cruise Alarming Mobile service starts automatically when the app is launched for the first time and remains active even after device reboot. The service is only stopped if the application is forcefully closed via **Force Stop** in phone settings.

UI overview

This chapter provides a high-level guide to the layout of the Cruise Alarming Mobile application. The design focuses on clarity and immediate accessibility — critical for an onboard alarming system where quick access to information is vital for safety and effective operation.

Main Screens

The application interface is structured around three main screens, accessible via the bottom navigation bar:

Screen	Icon	Description
Alarm History	Bell	A chronological log of all received messages and alerts.
Group Overview	List	Management and status view of different alarm groups.
App Settings	Gear	Configuration options for application behavior and notifications.

Bottom Navigation Bar

The bottom navigation bar is always visible across the three main screens, providing one-tap access to each section:

- **Alarms (Bell icon)** — Navigate to Alarm History.
- **Groups (List icon)** — Navigate to Group Overview.
- **Settings (Gear icon)** — Navigate to App Settings.

Alarm history

The Alarm History screen displays a chronological log of all received notifications and alarms within the application. It provides a quick reference for reviewing past events and their details.

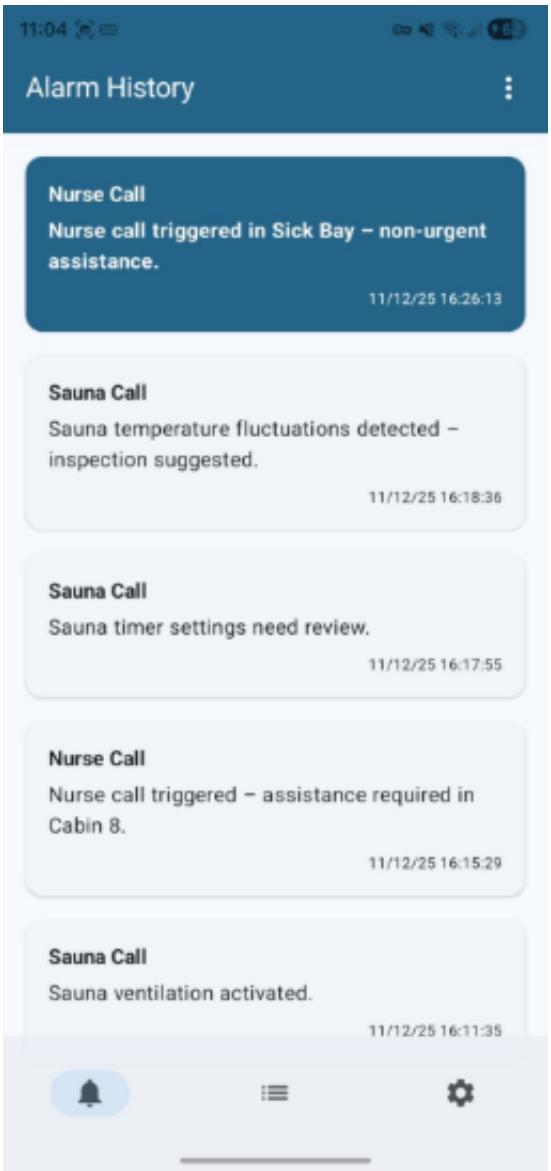


Figure 8: Alarm History screen

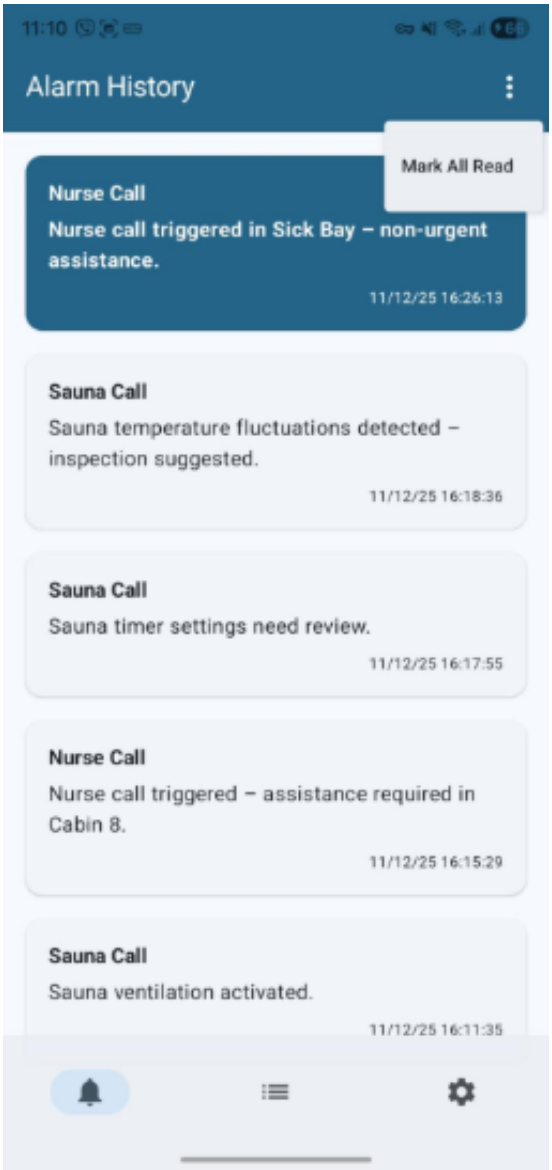


Figure 8: Alarm History with options menu open

Header Area

Element	Description
Title	"Alarm History" displayed at the top of the screen.
Options Menu (?)	Three vertical dots in the top-right corner open an overflow menu.

Options Menu

Action	Description
Mark All Read	Marks every active alarm in the list as read, clearing the blue unread highlight on all cards.

Event List Area

The central part of the screen contains alarm cards ordered chronologically, with the most recent event at the top.

Card Element	Description
Group name	Bolded text indicating the alarm source (e.g., *Sauna*

Card Element	Description
	Call, *Nurse Call*).
Description	A brief description of the alarm event.
Timestamp	Date and time the event occurred, shown in the bottom-right of the card.
Unread indicator	Blue card background denotes an unread alarm.

User Flow

Tapping on any alarm card performs two actions simultaneously:

1. Opens the **Alarm Details** screen with full information about the event.
2. Marks that specific message as **Read** in the list.

Alarm groups

The Alarm Groups screen allows users to manage and monitor different categories of alarms. It provides a quick overview of group statuses and allows for global status management through menu options.

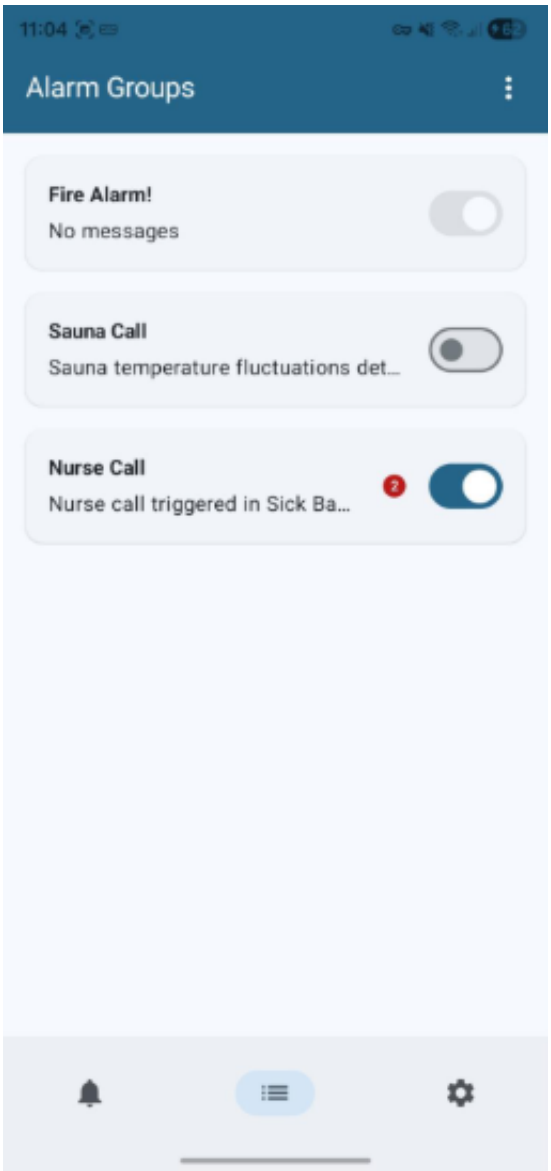


Figure 9: Alarm Groups screen

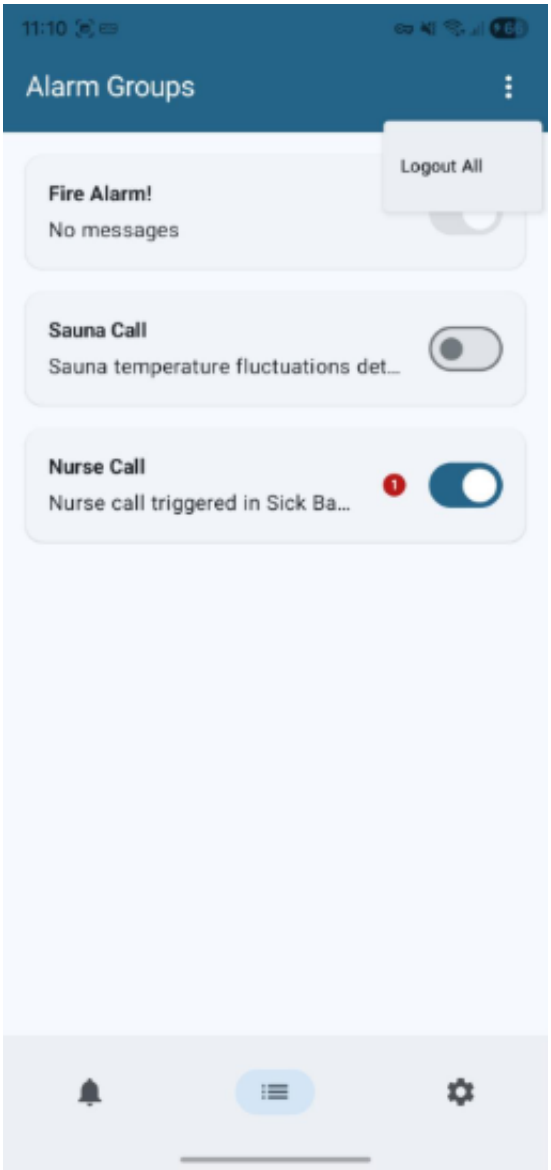


Figure 9: Alarm Groups with options menu open

Header Area

Element	Description
Title	"Alarm Groups" displayed at the top.
Options Menu (?)	Dynamic overflow menu — content depends on the user's current login state.

Options Menu

Action	Description
Logout All	Logs the user out from all groups, except those configured as "Always Logged In" (e.g., Fire Alarm!).
Login Last	Reverts the status of all modifiable groups to the state they were in before the last mass logout.

Groups List Area

Card Element	Description
Group Type	Bolded group name (e.g., Fire Alarm!, Nurse Call, Sauna Call).

Card Element	Description
Description	Brief status or last message below the group name (e.g., "No messages").
Status Switch	Toggle switch indicating whether the group is active (receiving notifications). Grayed out for "Always Logged In" groups.
Unread Indicator	Red bubble showing the count of unread notifications for that group.

User Flow

- **Tapping a group card** opens a separate Group Details screen showing all alarms and notifications within that group.
- **Pull to refresh** — pull down on the list to fetch the latest statuses and messages from the server.

Settings

The Settings screen allows users to configure application behavior, including network information, appearance, debug options, server connection details, and sound preferences.

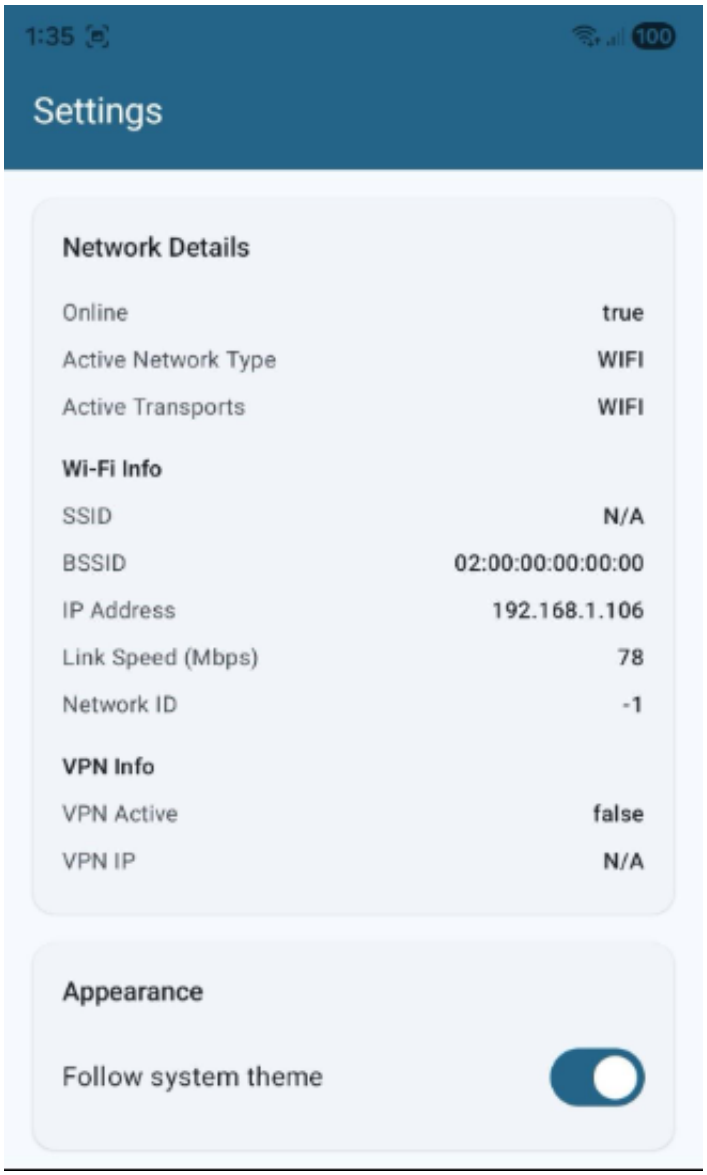


Figure 10: Settings screen

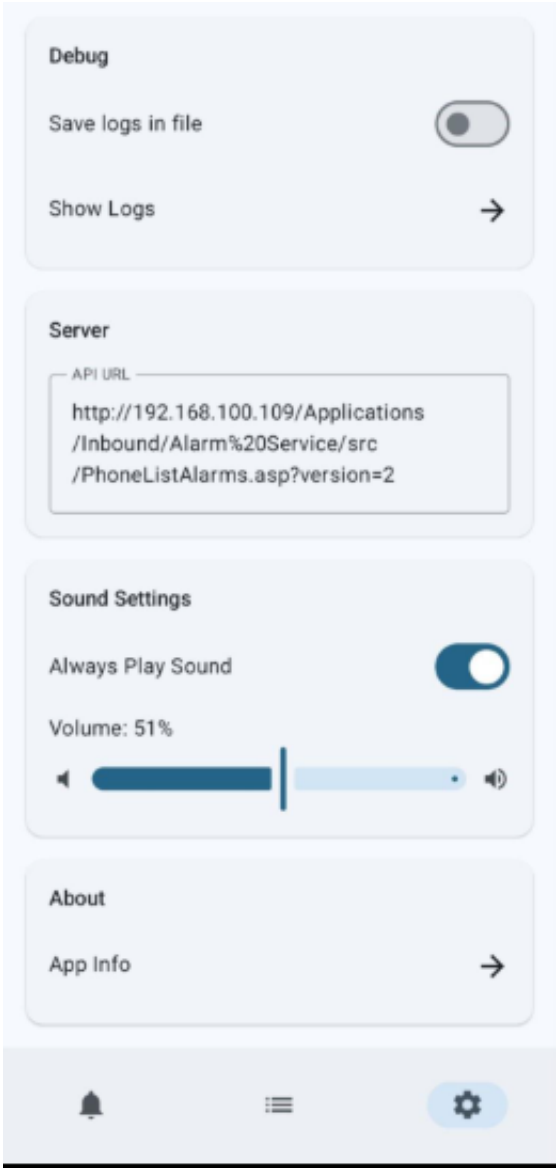


Figure 10: Settings screen (continued)

Network Details

This read-only section provides current network status and configuration information, including online status, active network type, active transports, Wi-Fi info (SSID, BSSID, IP address, link speed, network ID), and VPN info.

Appearance

Setting	Description
Follow system theme	Toggle to synchronize the app's theme (light/dark) with the operating system settings.
Dark Mode	Toggle to manually enable or disable dark mode.

Debug

Setting	Description
Save logs in file	Toggle to enable or disable saving application logs locally to the device.
Show Logs ?	Navigation link to the Log screen.
Share Logs ?	Navigation link to share log files via the standard

Setting	Description
	system sharing sheet.

Server

Setting	Description
Server URL	Displays the HTTPS endpoint used to connect to the backend service (CALLISTO_IP_ADDRESS). This value is set via MDM or manually during setup.

Sound Settings

Setting	Description
Always Play Sound	Toggle to ensure notification sounds are always played, even in silent/vibrate mode (subject to DND and notification permissions).
Volume	Horizontal slider to adjust notification volume. Displayed as a percentage; internally maps to values 0–15.

About

Setting	Description
App Info ?	Navigation link to the About screen with version info, licenses, and copyright details.

Group details

The Group Details screen provides a chronological log of all received notifications and alarms belonging to a specific alarm group (e.g., "Nurse Call"). Events are ordered with the most recent at the top.

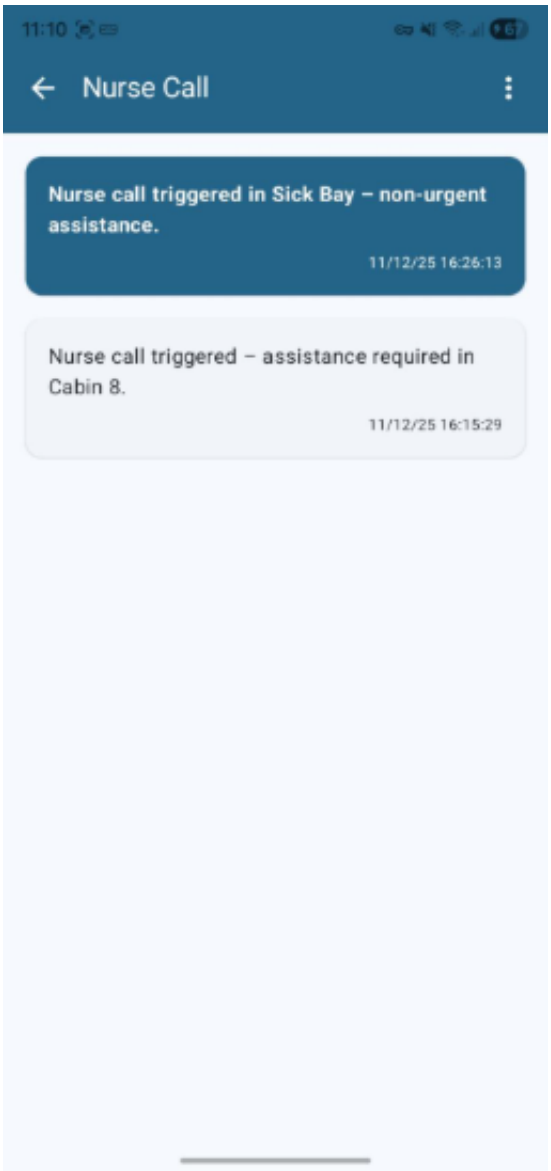


Figure 11: Group Details screen

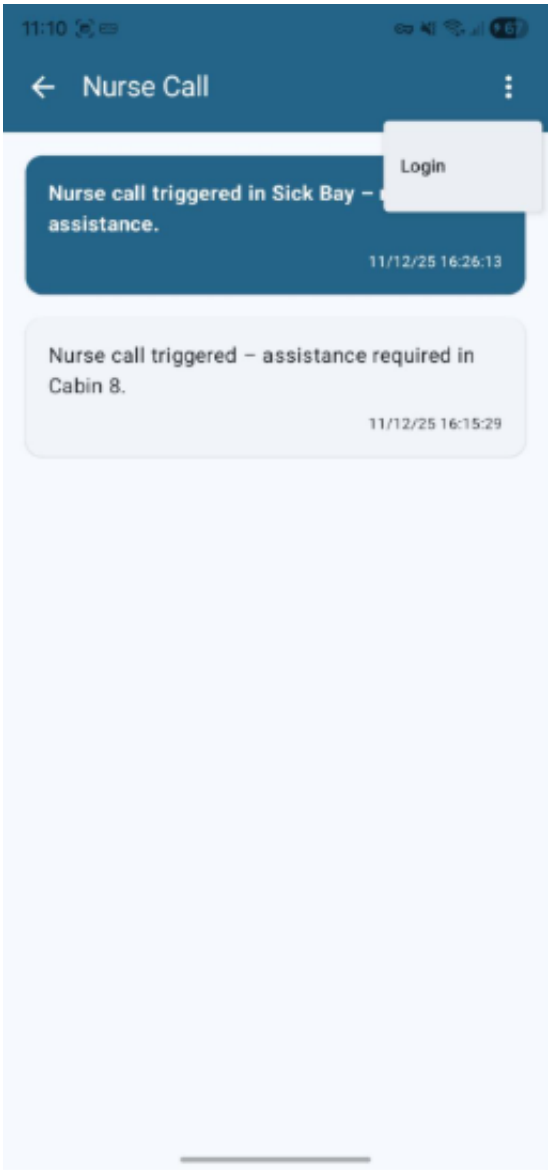


Figure 11: Group Details with options menu open

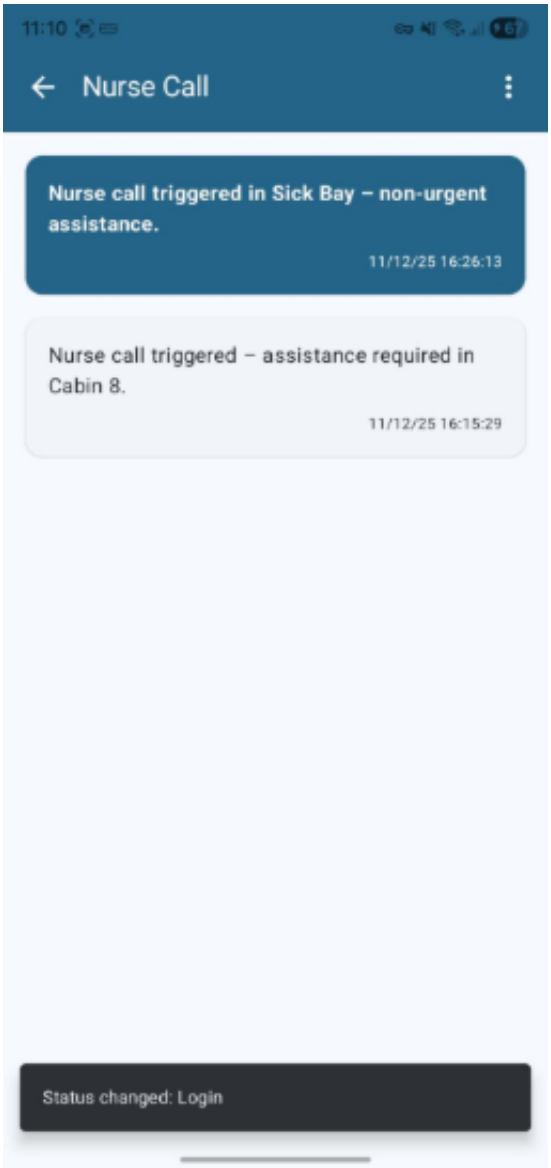


Figure 11: Login confirmation snack bar

Header Area

Element	Description
Title	Displays the name of the selected event group (e.g., "Nurse Call").
Back Button (?)	Returns to the previous screen or the main application dashboard.
Options Menu (?)	Overflow menu with Login/Logout actions for this specific group.

Options Menu

Action	Description
Login	Subscribes the user to alarms from this group. New alarms will be received for this category.
Logout	Unsubscribes the user from this group. No new alarms will be received for this category.

Upon successful login or logout, a temporary **snack bar** notification appears at the bottom of the screen to confirm the action.

Event List Area

Card Element	Description
Description	Brief alarm description (e.g., "assistance required in Cabin 8").
Timestamp	Date and time of the event in format DD/MM/YY HH:MM:SS, shown in the bottom-right of the card.
Status Indicator	Blue card background indicates an unread alarm.

User Flow

- **Tapping an event card** navigates to the Alarm Details screen for comprehensive information.
- **Pull to refresh** — pull down on the list to fetch the latest statuses and messages from the server.

Alarm details

The Alarm Details screen provides a detailed view of a specific alarm incident. It presents all relevant information about a single triggered event and guides the user toward an appropriate response or inspection.

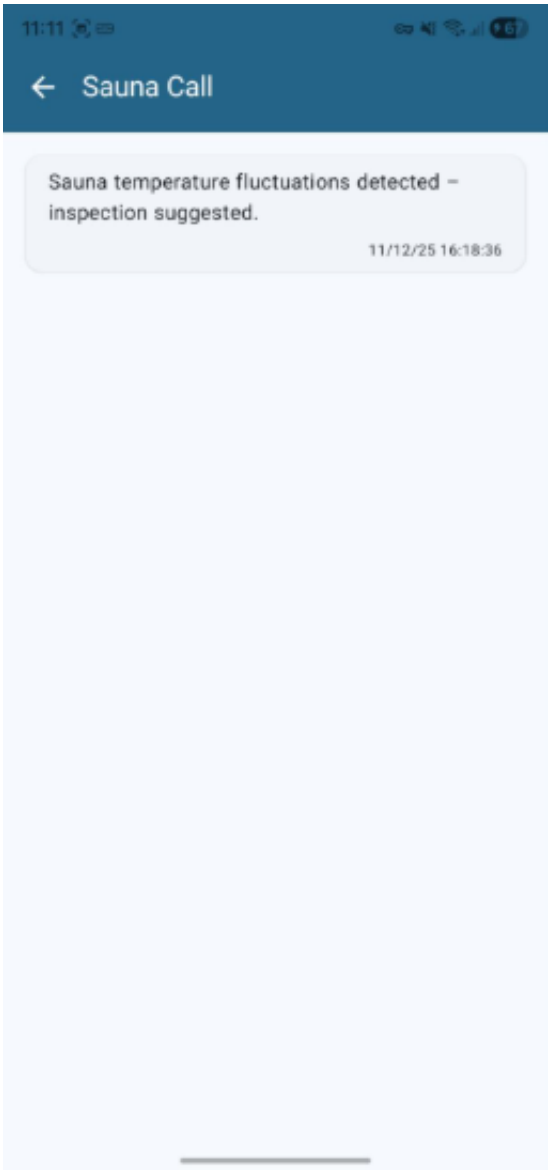


Figure 12: Alarm Details screen

Header Area

Element	Description
Title	Displays the event group source (e.g., "Sauna Call", "Nurse Call").
Back Button (?)	Returns to the previous screen or the main application dashboard.

Event Details Area

The central part of the screen contains a single card with the following details:

Element	Description
Description	A clear, action-oriented message specific to the event (e.g., "Sauna temperature fluctuations detected – inspection suggested").
Timestamp	Date and time of the event in format DD/MM/YY HH:MM:SS, shown in the bottom-right of the card.

“About” screen

The About screen provides general application information including the version number, legal disclaimers, and an interactive viewer for open-source software licenses.

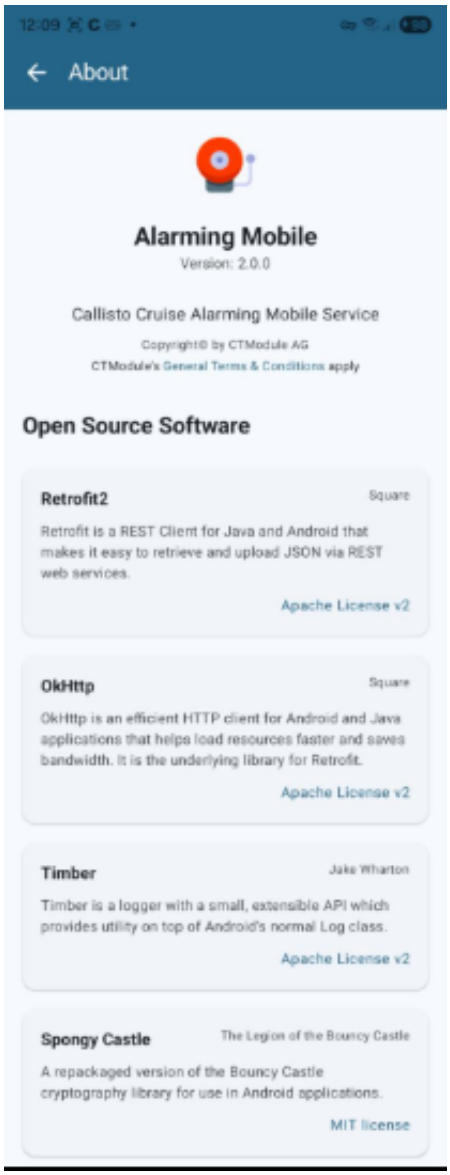


Figure 13: About screen

Figure 14: License details bottom sheet

Application Information

Field	Value
App Name	Cruise Alarming Mobile
Version	2.0.0
Service Name	Callisto Cruise Alarming Mobile Service
Copyright	Copyright © CTModule AG — General Terms & Conditions apply.

Open Source Software

This section lists the third-party libraries used in the application. Each entry shows the library name, author/organisation, a short description, and its license type.

Tapping on any license entry opens a **bottom sheet dialog** displaying the full text of the corresponding license agreement (e.g., the full Apache License Version 2.0 text).

Logs

The Log screen displays a real-time activity log for the Alarming Mobile application. It serves as a debugging and administration tool, providing a detailed, chronological record of internal events, setting changes, network requests, and navigation within the app.

This screen is accessed from Settings ? Debug ? Show Logs.

Figure 15: Real-time log screen

Header Area

Element	Description
Title	"Log"
Back Button (?)	Returns to Settings.

Auto-Scroll Control

Control	Description
AUTO_SCROLL_ENABLED	Displays and controls the auto-scroll status . When ON, the screen automatically scrolls to the newest log entry as messages are generated.

Log Entries Area

Log entries are listed chronologically from oldest (top) to newest (bottom). Each entry contains:

Field	Example	Description
Timestamp	10:56:30	Exact time of the event.
Source/Module		The module or class responsible for the event.
Event Message	Server URL changed – restarting socket server	Detailed description of the action or status.

Sharing Logs

Log files can be shared via the standard system sharing sheet. Access this from Settings ? Debug ? Share Logs. Log file saving must be enabled via the **Save logs in file** toggle in Debug settings, or via the MDM save_logs attribute.

Fullscreen alarm

The Fullscreen Alarm is an interrupt-style full-screen alert view designed to notify the user of a triggered alarm regardless of what is currently displayed on their device. It is shown even when the app is in the background or the screen is locked, provided the Overlay permission has been granted.

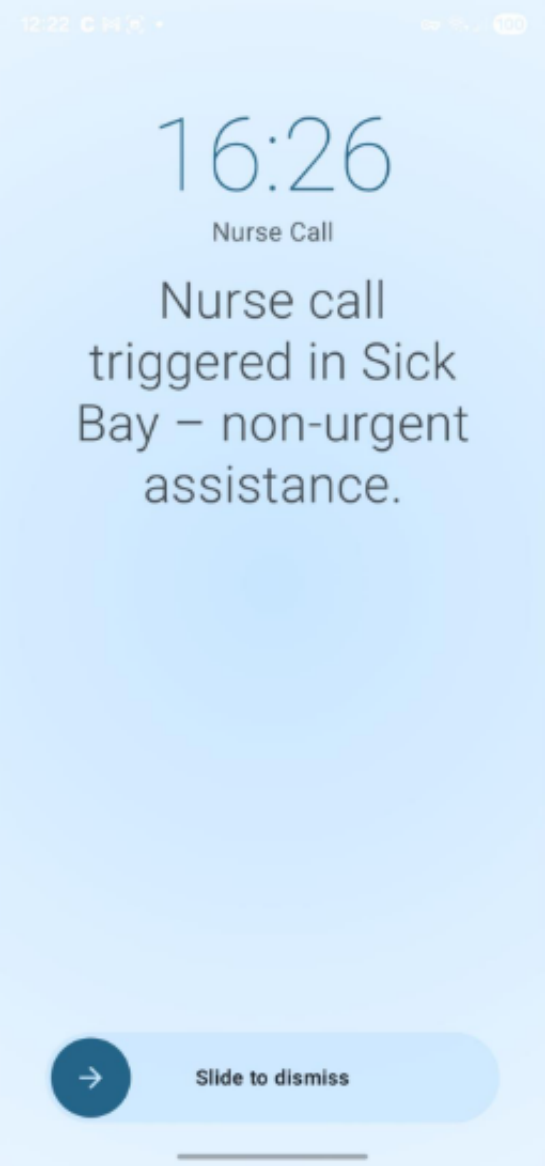


Figure 16: Fullscreen alarm

Screen Components

Element	Description
Timestamp	The time of the alert displayed prominently in large font (e.g., **16:26**).
Group name	The alarm group labeled directly below the time (e.g., *Nurse Call*).
Message	A clear alarm message (e.g., "Nurse call triggered in Sick Bay – non-urgent assistance").

Element	Description
Slide to dismiss	A slide gesture at the bottom of the screen dismisses the fullscreen alarm.

Note: The Fullscreen Alarm requires the Overlay Permission to be granted. Without it, critical alarms may not be displayed over other apps.

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