



CALLISTO⁺

CRUISE ALARMING

ADMINISTRATION MANUAL



Table Of Contents

Administration manual	3
Setup	3
Settings	4
ESPA configuration	6
Alarm groups	9
SMCS alarm integration	13
Alarm reports	14
Copyright Information, Disclaimer	15

Setup

Installation

Cruise Alarming is installed through Callisto's Open Application Manager. The installation and updating process for OAM applications is described in the chapter [Options](#) of the Callisto platform administration manual.

Privileges

The following application privileges can be assigned to a user for the Cruise Alarming application. For setting user privileges, see the chapter [User administration](#) of the Callisto platform administration manual.

Settings	Provides access to the <i>Settings</i> tab.
EspaSources	Provides access to the <i>Espa Configuration</i> tab.
ActiveAlarms	Provides access to the <i>Active Alarms</i> tab.
ClearedAlarms	Provides access to the <i>Cleared Alarms</i> tab.
Alarm Groups	Provides access to the <i>Alarm Groups</i> tab.
SMCSIntegration	Provides access to the <i>SMCS Alarm Integrations</i> tab.

Access



Configure icon

Administrators can access the Cruise Alarming configuration by navigating to System > Open Application Manager in the main menu. In the tab Applications, locate the Cruise Alarming instance and click on the *Configure* icon.

Users who were granted privileges to access the Cruise Alarming instance can do so by navigating to Applications in the main menu and clicking on the name of the ProfACD instance.

Settings

The Settings tab contains the general settings of Cruise Alarming.

Settings Espa Configuration Alarm Groups SMCS Alarm

Settings

Cruise Alarming

Copy/Paste this URL to your callmanager's IP Phone Service.
Parameter 'version' should be provided (version=2)

Base URL for REST services
<group> and <message> must be replaced by the actual values.

Phone Activate Alarm Service
Create the needed service in CUCM with this URL.
Parameters 'groupID' and 'message' should be provided.

Redundancy delay (seconds):

Automatically delete reports after (days):

Save

Service URLs

At the top of this tab are three predefined URLs:

Call manager phone service URL

The first URL is used to set Cruise Alarming as a phone service on the call manager. This service provides the possibility to list the alarm history directly on phones which are subscribed to the service. Paste this URL to the call manager's phone service definition.

REST services

The second URL is the base URL for the REST API provided by Cruise Alarming.

The URL contains two placeholders which must be replaced when calling the REST API:

- <group>: The ID or name of the group to which the alarm message are sent to (see chapter [Alarm groups](#)).
- <message>: The content of the alarm message.

“Activate alarm” phone service

The third URL is used on IP phones to set up services which can activate predefined alarms (e.g., engineer call). To use such a this service, two parameters :

- groupID: The ID/group number of an alarm group (see chapter [Alarm groups](#)).
- message: The text to display of alarm which will be shown on the alarm group phones when alarm is activated.

Paste this URL to the call manager’s phone service definition.

Additional settings

Redundancy delay

Set in seconds. The interval of how often Callisto checks for duplicate messages. This is helpful if multiple alarming systems send the same messages. If set to 0, no redundancy check will be performed.

Automatically delete reports after

Set in days. The time how long alarm reports will be kept before being deleted automatically.

ESPA configuration

Callisto Crusie Alarming supports both ESPA 4.4.4 and ESPA-X interfaces for alarm communication. Choose the interface to use by selecting the Espa Configuration tab and clicking the respective button at the top of the panel.

ESPA-X Server

ESPA-X clients can be integrated with Callisto via an embedded ESPA-X server.

Callisto supports ESPA-X protocol version 1.00 rev 4.

Espa Configuration

Alarm Service

ESPA-X Server
ESPA 4.4.4 Sources

Server General Settings

Port:

ESPA-X Server Port
If set to 0 then ESPA-X Server is turned off

Heartbeat interval:

Heartbeat interval in seconds
Default value is 120

Maximum client connections:

Maximum parallel ESPA-X Client connections
Default value is 4

Max parallel sessions:

Maximum parallel sessions of same client
If multiple instances of same client (redundant)
exists set to 2 or more. Default value is 2

Client Credentials

Username	Password	Description
<input type="text" value="bridge_panel"/>	<input type="password" value="●●●●●●"/>	<input type="text" value="main alarm on bridge"/>
<input type="text" value="vent_a"/>	<input type="password" value="●●●●●●"/>	<input type="text" value="smoke ventilation A"/>
<input type="text" value="vent_b"/>	<input type="password" value="●●●●●●●●"/>	<input type="text" value="smoke ventilation B"/>
<input type="text" value="pag_medical"/>	<input type="password" value="●●●●"/>	<input type="text" value="paggers medical staff"/>
<input type="text" value="pag_engineer"/>	<input type="password" value="●●●●●●"/>	<input type="text" value="paggers engineering staff"/>
<input type="text" value="backup"/>	<input type="password" value="●●●●"/>	<input type="text" value="backup alarming"/>

Active sessions...
Reports...
Save
Cancel

Port

The server port (TCP) on which ESPA-X clients connect to the ESPA-X server. The recommended port is 2023, but can be set to any free port. Setting the port to 0 disables the ESPA-X server.

Heartbeat interval

Set in seconds. If there are no activities from an ESPA-X client during this interval (i.e., no heartbeat ESPA-X messages are received), the respective ESPA-X client session will be terminated.

To avoid erroneous termination of a session, the Heartbeat interval set here should be set at least 20% higher than the heartbeat interval configured on the ESPA-X client.

Maximum client connections

The maximum of clients which can be connected to the ESPA-X server simultaneously. The recommend setting is 10.

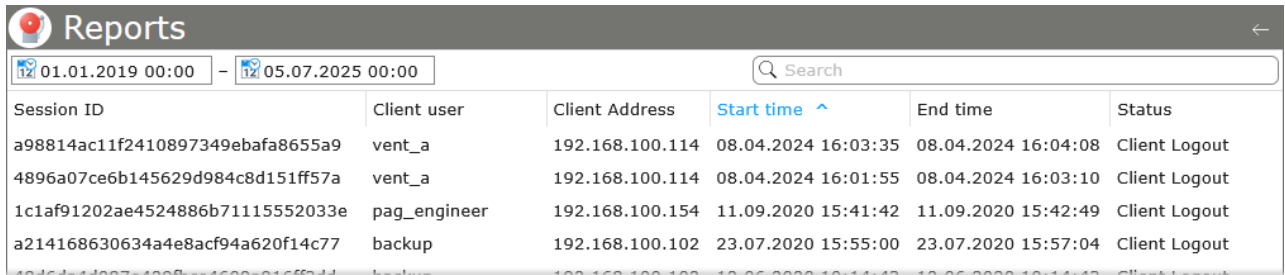
Max parallel sessions

If multiple instances of the same client exist (e.g., in a redundant system), the maximum of allowed parallel sessions with the same client can be set here.

Client credentials

Enter the username, password and an optional description of all ESPA-X clients that connect to the configured server.

Active ESPA-X sessions can be monitored in real-time by clicking the Active sessions... button. Clicking on the Reports... button will list all past EXPA-X sessions.



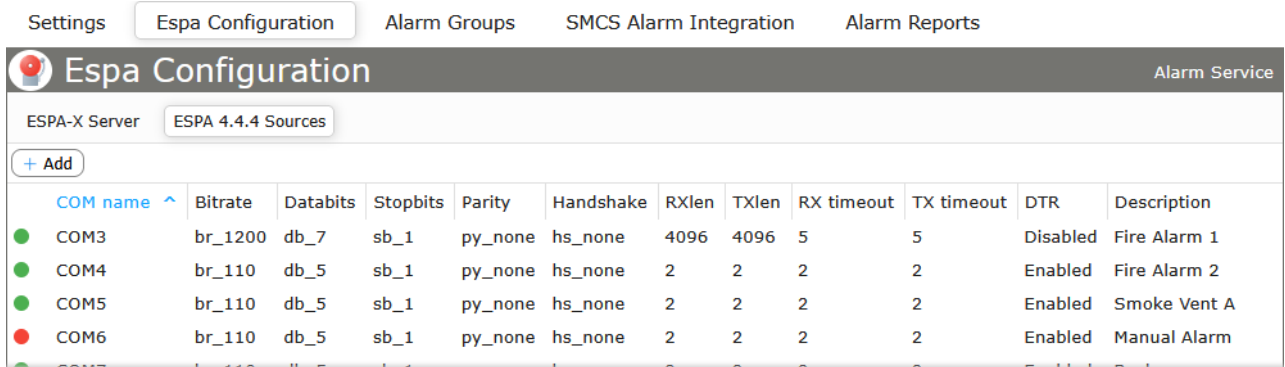
The screenshot shows the 'Reports' section of the interface. It includes a date range selector from 01.01.2019 00:00 to 05.07.2025 00:00 and a search bar. Below is a table with the following columns: Session ID, Client user, Client Address, Start time, End time, and Status.

Session ID	Client user	Client Address	Start time	End time	Status
a98814ac11f2410897349ebafa8655a9	vent_a	192.168.100.114	08.04.2024 16:03:35	08.04.2024 16:04:08	Client Logout
4896a07ce6b145629d984c8d151ff57a	vent_a	192.168.100.114	08.04.2024 16:01:55	08.04.2024 16:03:10	Client Logout
1c1af91202ae4524886b71115552033e	pag_engineer	192.168.100.154	11.09.2020 15:41:42	11.09.2020 15:42:49	Client Logout
a214168630634a4e8acf94a620f14c77	backup	192.168.100.102	23.07.2020 15:55:00	23.07.2020 15:57:04	Client Logout

More information about ESPA-X can be found in the [ESPA-X Server interface manual](#).

ESPA 4.4.4. Sources

You can configure up to 10 COM ports for ESPA 4.4.4. Sources (Alarm systems on the ship). When an alarm system detects a problem somewhere on board (e.g., a fire sensor detects fire in a cabin), the alarm system immediately informs Callisto Cruise by sending the respective ESPA messages via COM port. Depending on the calling source's address, the received alarm message will be pushed to any related alarm groups (see chapter [Alarm Groups](#)).



The screenshot shows the 'Espa Configuration' section with the 'ESPA 4.4.4 Sources' tab selected. It features a '+ Add' button and a table with the following columns: COM name, Bitrate, Databits, Stopbits, Parity, Handshake, RXlen, TXlen, RX timeout, TX timeout, DTR, and Description.

COM name	Bitrate	Databits	Stopbits	Parity	Handshake	RXlen	TXlen	RX timeout	TX timeout	DTR	Description
COM3	br_1200	db_7	sb_1	py_none	hs_none	4096	4096	5	5	Disabled	Fire Alarm 1
COM4	br_110	db_5	sb_1	py_none	hs_none	2	2	2	2	Enabled	Fire Alarm 2
COM5	br_110	db_5	sb_1	py_none	hs_none	2	2	2	2	Enabled	Smoke Vent A
COM6	br_110	db_5	sb_1	py_none	hs_none	2	2	2	2	Enabled	Manual Alarm

The dots on the left side of each ESPA source represent the current status of the COM ports. A green dot indicates an open port, a red dot means that the port is either closed or encountering an issue. Hovering over the dot will reveal more information on the current status.

Alarm groups

This tab lists all alarm groups. Each alarm group contains the configuration of a specific alarm's behavior when executed (e.g., prompt to display, ringtone, vibration, repetitions) as well as which target devices the alarm will be distributed to.

Settings Espa Configuration **Alarm Groups** SMCS Alarm Integration Alarm Reports

Alarm Groups Alarm Service

[+ Add](#)

Group Number ^	Description	Subject	Prompt	Ringtone	Vibration	Repetitions	RepetitionDelay	Minimum logged-in devices	Privileges
854	Fire Alarm	Fire detected!	Go to evacuation area	Alarm1.raw	1000:3000:8	3	5	All	2 Entries
943	Water Ingress	Flooding detected!	Pumps activated	Alarm1.raw	2000:1000:8	3	5	All	1 Entries
719	Engine Fault	Engine system error!	Check engine room now	Synth.raw	4000:3500:5	3	5	2	0 Entries
640	Hull Breach	Hull integrity alert!	Check lower deck immediately	Alarm2.raw	5000:500:8	3	5	5	3 Entries
598	Man Overboard	Man overboard!	Rescue team called	Horn.raw	2000:1000:8	5	5	All	3 Entries
460	Navigation Error	Nav system warning!	Manual check required	Synth.raw	1000:500:5	3	5	2	0 Entries
467	High Wind	Strong winds ahead!	Secure all open areas	Synth.raw	2500:1000:5	3	5	2	0 Entries

An alarm group is uniquely identified by the group number.

If an alarm group should be triggered by an ESPA source, the ESPA source's call address must be used as the group number.

Adding an alarm group

To add an alarm group, click on the Add button in the top-left corner and a dialog window will appear to configure the new alarm group.

Add Alarm Group

Group Number: ?

Description: ?

Subject: ?

Prompt: ?

Ringtone: ?

Vibration: ?

Repetitions: ?

RepetitionDelay: ?

Minimum logged-in devices: All ?

Group Number

The unique identifier for this group. Needs to be the

Description	same as the ESPA call address which should trigger this group alarm.						
Subject	A short text to describe the alarm group. Text to be shown as a push message's title on any phone that receives the alarm (maximum 32 characters).						
Prompt	Text to be shown as a push message's text body on any phone that receives the alarm (maximum 32 characters).						
Ringtone	The file name of the ringtone that will be used on any device that receives the alarm.						
Vibration	<p>Typing any text in this field will reveal a list of all available ringtones that match the entered text. Configure the vibration that will be activated on any device that receives the alarm.</p> <p>A vibration has the format vibrateDuration:silenceDuration:count.</p> <table border="0"> <tr> <td style="padding-right: 20px;">vibrateDuration:</td> <td>The duration of the vibration (set in milliseconds; value between 0 and 65536).</td> </tr> <tr> <td>silenceDuration:</td> <td>The duration of the silence after the vibration (set in milliseconds; value between 0 and 65536).</td> </tr> <tr> <td>count:</td> <td>The count of how often the vibration is repeated (value between 0 and 100).</td> </tr> </table>	vibrateDuration:	The duration of the vibration (set in milliseconds; value between 0 and 65536).	silenceDuration:	The duration of the silence after the vibration (set in milliseconds; value between 0 and 65536).	count:	The count of how often the vibration is repeated (value between 0 and 100).
vibrateDuration:	The duration of the vibration (set in milliseconds; value between 0 and 65536).						
silenceDuration:	The duration of the silence after the vibration (set in milliseconds; value between 0 and 65536).						
count:	The count of how often the vibration is repeated (value between 0 and 100).						
Repetitions	How often an alarm is repeated on a device if the alarm isn't answered.						
RepetitionDelay	The interval between alarm repetitions (set in seconds; values between 2 and 60).						
Minimum logged-in devices	The minimum number of devices that are required to be logged into the alarm group. Checking All will require all devices to be logged in.						

Privileges and editing alarm groups

There are two privileges that can be given to users regarding alarm groups:

- Edit: Permission to change the group's attributes (e.g., description, subject, prompt...), add and configure the destinations, or delete a group.
- Execute: Permission to activate the alarm for a group.

Administrators can edit and delete any alarm group as well as execute the respective alarms. Regular users need the appropriate privileges to edit an alarm group and/or execute an alarm. To edit user privileges, click on the Privileges column of any alarm group to access the group's privilege settings. Here, you can set which users and user groups have the privilege to edit/delete the alarm group or execute the group's alarm.

Alarm Groups Privileges - Fire Alarm

Name	Edit	Execute
Security staff	<input type="checkbox"/> Edit	<input checked="" type="checkbox"/> Execute
Scott.Williams	<input checked="" type="checkbox"/> Edit	<input checked="" type="checkbox"/> Execute
Clara.Stevens	<input checked="" type="checkbox"/> Edit	<input checked="" type="checkbox"/> Execute

New Entry:

+ Edit Execute Add

Users can only be selected for alarm group privileges if they meet the following criteria:

- The user has access to the Cruise Alarming instance (see chapter [User administration](#) in the Callisto Platform administration manual).
- The user has the privilege to access the *Alarm Groups* tab (see chapter [Setup](#)).

Likewise, when a user group is granted any privileges, only group members that meet those two criteria will effectively gain the selected privileges.

If a regular user creates a new alarming group, he will be automatically given the privilege to edit and execute the alarm group. The user can then remove his own privileges, but won't be able to restore them afterwards. A group without any privilege entries can only be edited by administrator users.

Alarm group destinations





Destinations icon

Alarm group destinations define the devices which receive alarms triggered by an alarm group. To edit the alarm group destinations, hover over an alarm group and click on the *Destinations* icon on the right side.

Alarm Service

Minimum logged-in devices	Privileges	
All	2 Entries	
All	1 Entries	
2	0 Entries	
5	3 Entries	

Alarm Group Destinations - Fire Alarm			
Destination IP ^	Description	Device Type	Login State
 247.207.9.21	Office Phone 210	Cisco Phone ▾	Logged in ▾
 247.207.9.26	Office Phone 211	Cisco Phone ▾	Logged in ▾
 247.207.9.32	Office Phone 220	Cisco Phone ▾	Logged in ▾
 247.207.9.34	Office Phone 221	Cisco Phone ▾	Logged in ▾
 247.207.179.48	Mobile Phone Deck Shift	Android ▾	Logged in ▾
 247.207.179.82	Mobile Phone Deck Backup	Android ▾	Logged out ▾
New Entry:			
 <input type="text"/>	<input type="text"/>	Cisco Phone ▾	Logged out ▾ <input type="button" value="Add"/>

For each destination, the following parameters can be set:

Destination IP
Description
Device Type

The IP address or DNS entry of the target.
An internal description of the target.
Set the device type for Cruise Alarming to use the appropriate protocols and ports for the push notification. The following device types are available:

- Cisco Phone
- Android
- SIP Phone

Login State

For Cisco Phones and Android devices, a Secure option is also available. With this options, a secure port is used for transmitting the alarm message (443 on Cisco Phones, 8443 on Android devices).
The device's login state. The state can also be controlled from the GUI. Changing state will be reflected on the device. The following states are available:

- Logged out
- Logged in
- Always logged in: With this option, it is not possible to log the device out from the GUI.



Activate Alarm icon

Users with the Execute privilege can immediately send the alarm to all destination devices by clicking the *Activate Alarm* icon on the right side of the alarm group.

SMCS alarm integration

SMCS Safety Monitoring & Control System integration provides integration with the Callisto module *SMCS Alarm*. Integration with SMCS Alarm allows the Cruise Alarming service to play pre-recorded messages to phones when an alarm is triggered.

SMCS Alarm Integration				Alarm Service
+ Add				
Group	Description	Number	SMCS Alarm Message ID	
854	Fire Alarm	CABIN %number%:Alarm	130	
943	Water Ingress	CABIN %number%:Alarm	132	
719	Engine Fault	%number%	187	
640	Hull Breach	1097	182	
508	Man overboard	%number%	130	

Group

ID/Number of the alarming group (alarm system). When alarm for that group is received call will be placed to the phone which number is defined in 'number' field

Description

A descriptive text about the alarm group/integration

Number

Number to which call will be placed (i.e., play a pre-recorded alarming message). The number can be static or be extracted from an alarm message (if possible).

The format for extraction must be provided by entering the text and placing the placeholder %number% where the actual number is written in the alarming message.

The system receives the following text message:

Fire alarm, sensor 8080 CABIN 1020:Alarm

To extract the phone number (in this case, 1020), the following expression can be used:

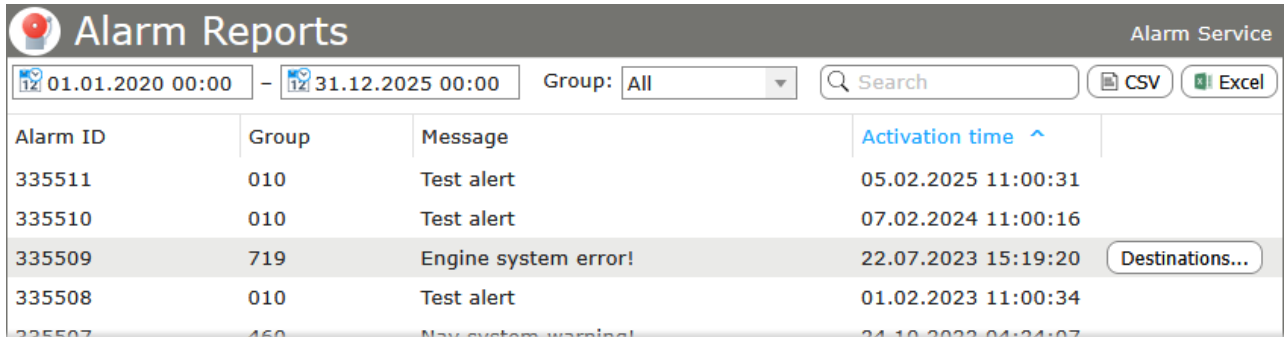
CABIN %number%:Alarm

SMCS Message ID

The ID of a pre-recorded message as defined in the *SMCS Alarm* module

Alarm reports

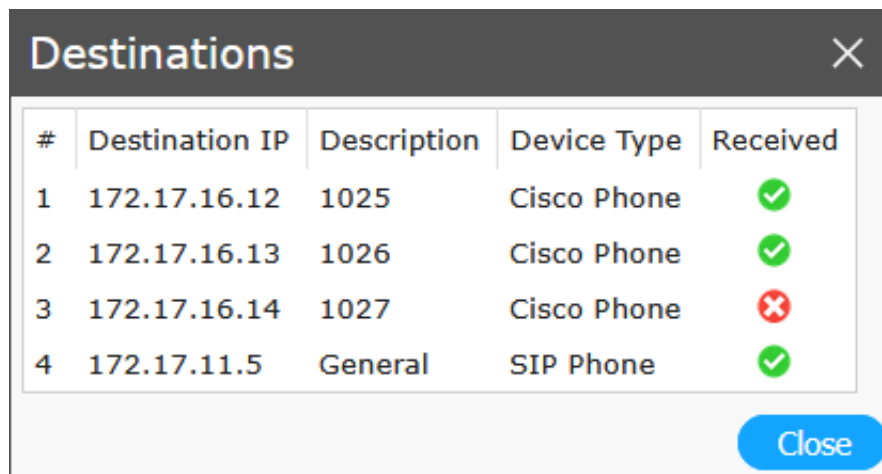
The *Alarm Reports* tab lists every occurrence when an alarm was triggered.



The screenshot shows the 'Alarm Reports' interface. At the top, there is a header with a red alarm icon and the text 'Alarm Reports' on the left, and 'Alarm Service' on the right. Below the header, there are two date/time input fields: '01.01.2020 00:00' and '31.12.2025 00:00', separated by a minus sign. To the right of these fields is a 'Group:' dropdown menu set to 'All', a search field with a magnifying glass icon and the text 'Search', and two buttons labeled 'CSV' and 'Excel'. Below these controls is a table with the following data:

Alarm ID	Group	Message	Activation time ^	
335511	010	Test alert	05.02.2025 11:00:31	
335510	010	Test alert	07.02.2024 11:00:16	
335509	719	Engine system error!	22.07.2023 15:19:20	Destinations...
335508	010	Test alert	01.02.2023 11:00:34	
335507	460	Nav system warning!	24.10.2022 04:24:07	

To show the alarms triggered during a certain time, set the time frame with the two date/time input fields on the top left corner. Selecting a group from the Group drop-down menu, only alarms of the selected group will be shown. With the search field, alarms can be filtered by any available metadata. Clicking the buttons labeled CSV or Excel will export the current report listing in the respective file format.



The screenshot shows a dialog box titled 'Destinations' with a close button (X) in the top right corner. The dialog contains a table with the following data:

#	Destination IP	Description	Device Type	Received
1	172.17.16.12	1025	Cisco Phone	✓
2	172.17.16.13	1026	Cisco Phone	✓
3	172.17.16.14	1027	Cisco Phone	✗
4	172.17.11.5	General	SIP Phone	✓

At the bottom right of the dialog, there is a blue button labeled 'Close'.

Clicking on the button labeled Destinations... will show all the destinations to which the alarm was sent; the symbol in the column Received indicates whether the destination actually received the alarm message.

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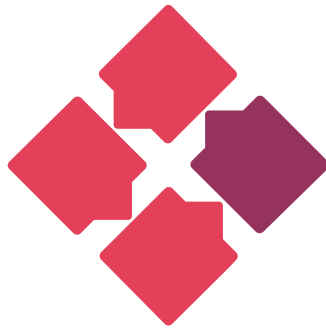
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