


# 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 style="width: 95%;" type="text" value="bridge_panel"/>	<input style="width: 95%;" type="password" value="••••••"/>	<input style="width: 95%;" type="text" value="main alarm on bridge"/>
<input style="width: 95%;" type="text" value="vent_a"/>	<input style="width: 95%;" type="password" value="••••••"/>	<input style="width: 95%;" type="text" value="smoke ventilation A"/>
<input style="width: 95%;" type="text" value="vent_b"/>	<input style="width: 95%;" type="password" value="••••••••"/>	<input style="width: 95%;" type="text" value="smoke ventilation B"/>
<input style="width: 95%;" type="text" value="pag_medical"/>	<input style="width: 95%;" type="password" value="••••"/>	<input style="width: 95%;" type="text" value="paggers medical staff"/>
<input style="width: 95%;" type="text" value="pag_engineer"/>	<input style="width: 95%;" type="password" value="••••••"/>	<input style="width: 95%;" type="text" value="paggers engineering staff"/>
<input style="width: 95%;" type="text" value="backup"/>	<input style="width: 95%;" type="password" value="••••"/>	<input style="width: 95%;" 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.

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](#)).

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

ESPA-X Server   **ESPA 4.4.4 Sources**

[+ Add](#)

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
COM7	br_110	db_5	sb_1	py_none	hs_none	2	2	2	2	Enabled	Backup

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.