

# Connectivity with Nimbra Edge

CE Mini v1.8.4

**Technical Note** 



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#### 1. Introduction

This document explains how to configure CE-Mini to enable Nimbra Edge connectivity to NetInsight Nimbra Edge Cloud.

In a typical situation, the steps below will need to be done before commissioning the unit for the event or before sending it to the takers who contribute the CE-mini feeds to the central broadcaster using Nimbra Edge Cloud.



#### 2. Configure CE-Mini to connect to Nimbra Edge cloud

To configure CE-Mini to connect to Nimbra Edge cloud, follow these steps:

**1.** Login to the CE-Mini user interface

#### 2. Select Broadcast -> netinsight

**3.** Start Docker. A reboot prompt will pop-up, click ok to reboot.

MediaKind				<ol> <li>CE-Mini</li> </ol>
🖨 System 👻	· · ·			
🔁 Broadcast 👻	netins	ight		
🥙 Wowza	- Docker version	20.10.14	Start Stop	
🖄 ESPxMedia	Service status	Uninstalled		
ZENMASTER	Configure authentication			
	URL	https://edge.nimbra.io		
N netinsight	Secret key	Secret key provided fro		
≓ Stream ▼	Unit name	Unit name		
🔹 Video / Audio 👻	Unit admin	Edge connect unit adm	in.	
🔟 Network 👻	Control image version	N/A		
Record	Data image version	N/A		
👁 Live	Submit	🗸 Available packages	R3.13.2 ~	Install
🚢 Security 🔫				
SD OSD				

**4.** Enter the secret key, unit name, and unit admin then click on install to install the latest service package. (This step is only needed on the first-time the unit connects to netinsight).

MediaKind			<ol> <li>CE-Mini</li> </ol>
🗘 System 👻			
🖻 Broadcast 💌	netinsi	ignt	
갣 Wowza	Docker version	20.10.14 Start Stop	
🖄 ESPxMedia	Service status	Uninstalled	
ZENMASTER	Configure authentication		
	URL	https://edge.nimbra.io	
Notinsight	Secret key	Secret key provided from the Nimbra edge system	
≓ Stream ◄	Unit name	Unit name	
📣 Video / Audio 🔻	Unit admin	Edge connect unit admin.	
📶 Network 🔻	Control image version	N/A	
Record	Data image version	N/A	
@ Live	Submit	Available packages R3.13.2	v Install
📥 Security 👻			



**5.** After installation click on submit. The service should start automatically, if the service does not start, click on start again.

MediaKind						•	CE-Mini
🗢 System 👻	· · ·	• •					
Proadcast 💌		sight					
🌮 Wowza	Docker version	20.10.14		Stop			
ESPxMedia	Service status	Stopped	Start		Uninstall		
ZENMASTER	Configure authentication						ļ.
N netineight	URL	https://edge.nimbra.io					
M neunaight	Secret key						ĺ
≓ Stream ◄	Unit name	EC-CE-MINI-QA4					, i i i i
📢 Video / Audio 👻	Unit admin						
📶 Network 🔻	Control image version	R3.13.2					
D Record	Data image version	R3.13.2					
@ Live	Submit		B3 13	2			Inetall
🛔 Security 🔻		Available packages	- KG. 15.	-			matali

**6.** Login (or ask the broadcaster to verify this step) to Nimbra Edge, the user should be able to see the appliances that user just created under **Settings -> appliances**.

Nimbra Network Edge Advanach	~	≡ Ap	opliances					(	Q :	Search
Overview										
🗖 Inputs										
Dutputs			Name	Туре	Regions	Owner	Status	Alarms		
🛕 Alarms		п	EC-CE-MINI-OA	Edge Connect	stockholm	MediaKind	•	No alarms		ń
🗯 Settings	~									
Regions			EC-CE-MINI-QA2	Edge Connect	Oxford	MediaKind		No alarms		\$
Appliances										
Interfaces			EC-CE-MINI-QA3	Edge Connect	Southampton	MediaKind	•	No alarms		\$
Groups		п	EC-CE-MINI-OA4	Edge Connect	Austin TX	MediaKind	•	No alarms		ń
Users					Austin, TX					

#### 2.1. Create New Inputs (UDP)

To create new inputs, follow these steps:

- **1.** Go to the CE-Mini web interface.
- 2. Select **Stream -> Channel 1** then select the required resolution and bitrate.
- 3. Select Protocol 1 TS over IP, select TS -Protocol UDP.
- 4. Set the TS-IP address to **127.0.0.1**.



5. Set a desired port number and click **Submit**.

MediaKind			<ul> <li>CE-Mini</li> </ul>
🗢 System 👻	Stream		
🙆 Broadcast 🔻			
🥙 Wowza	Channel 1 Channel 2 D	ashboard	
ESPxMedia	Preset	H265, 1080P, 4M V Current resolution: 3840x2160	
ZENMASTER	Protocol 1	TS over IP ~	
💉 netinsight	TS - Protocol	UDP v	
≓ Stream ◄	TS - IP	127.0.0.1	
Channel 1	TS - Port	5000	
Channel 2	TS - TTL	64	(1 ~ 255)
Dashboard	TS - Video PID	100	(32 ~ 8186)
Ideo / Audio ▼	TS - PCR PID	100	(32 ~ 8186) 🔽 same as Video
🔟 Network 👻	TS - Audio 1 PID	101	(32 ~ 8186)
E Record	TS - Audio 2 PID	102	(32 ~ 8186)
Live	TS - Audio 3 PID	103	(32 ~ 8186)
🛔 Security 🔫	TS - Audio 4 PID	104	(32 ~ 8186)
SD OSD	TS - Audio 1 encode	1 (AAC-LC)	

2.2. Use the Stream as an input on Nimbra Edge cloud

**NOTE:** These steps may need to be performed by the broadcaster who routes the CE-Mini feeds into their network or to be routing to another network.

- 1. Go to Nimbra Edge web page. Click Inputs then Create input.
- 2. Enter a stream name and select the input appliance that user just created.



		lata data		
	IV.	leta data		
Dutputs				
Alarms		<pre>     Input name*    </pre>		
🔅 Settings 💦 🗲				Draviou
		🧹 Generate thumbnails		on demand
		Broadcast standard for transport stream analysis	୭	
	Ir	nput appliance #1		
		Region		
		singapore		
		stockholm		
		us-west		
		Appliance		
		EC-CE-MINIQA		
		EC-CE-MINIQA2		
		EC-CE-MINI-QA3		
		EC-CE-MINIQA4		

**3.** Set the interface to **Io**, mod to **udp**, address to **127.0.0.1**, and the port number should match with the setting on CE-Mini. Click on Save.

Input appliance #1	
Input appliance or region EC-CE-MINI-QA4	<b>~</b>
lo 127.0.0.1	-
- Mode* udp	•
Address* 127.0.0.1	▼ Port* 5000
Is this port multicast?	Whitelist CIDR block

4. The user will be able to see the steam with thumbnail on the webpage under inputs.

stream test	EC-CE-MINI-QA4	Advantech	2023-02-04	1080p59,94 h265	•	! :	
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