OIP-N60D/ OIP-N60D, Dante AV-H Bridge

User Manual - English



[Important]

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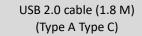
Table of Contents

Chapter 1 Package Contents	2
Chapter 2 Product Installation	3
2.1 I/O Interface	3
2.2 Product Installation	3
2.3 Description of Indicator Display	4
Chapter 3 Product Operation	5
3.1 Operating using the rocker switch	5
3.2 Operate via webpages	5
Chapter 4 Product Application and Connection	6
4.1 Virtual USB Network Camera	6
4.2 USB Network Camera Extension (OIP-N40E/OIP-N60D require	d)6
Chapter 5 Setting Menu	8
5.1 OIP-N60D	8
Chapter 6 Webpage Interface	9
6.1 Connecting to Internet	9
6.2 Log into the webpage	9
6.3 Webpage Menu Description	10
Chapter 7 Troubleshooting	22
Chapter 8 Safety Instructions	23
Copyright Information	25



Chapter 1 Package Contents

OIP -N60D Bridge



Locking metal plate (x2)





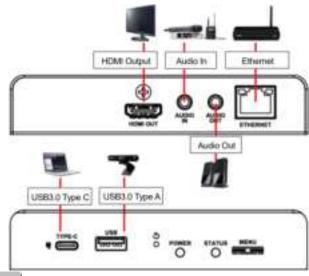


M3 metal plate screw (4x4)



Chapter 2 Product Installation

2.1 I/O Interface



We recommended using high-performance USB-C cables (10Gbps or higher)

2.2 Product Installation

- Using the accessory metal plates
- 1. Lock the accessory metal plate with screws (M3 x 4) to the lock holes on both sides of the OIP Bridge
- Screw the metal plate to the desk or other surface as required.





■ Tripod mounting

The camera can be mounted on a 1/4"-20 UNC PTZ tripod deck by using the lock holes on the side for the tripod of OIP Bridge.





2.3 Description of Indicator Display

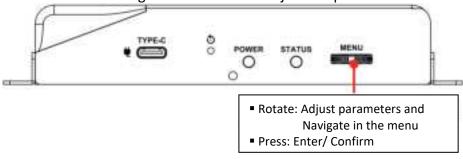
Power Status	Tally Status	Power	Standby	Tally
Startup in progress	-	Red light	-	Flickering
(initialization)				Red/Green light
In use	Signal	Red light	Green light	-
	No Signal			-
	Preview			Green light
	Program			Red light



Chapter 3 Product Operation

3.1 Operating using the rocker switch

Connect the HDMI OUT to the display, press the Menu dial to enter the OSD menu. Move the rocker switch to navigate the menu and adjust the parameters



3.2 Operate via webpages

(1) Confirm the IP address

Refer to <u>3.1Using the rocker switch</u>, confirm the IP address in Status (If the OIP-N40E is directly connected to the computer, the default IP is 192.168.100.100. You need to manually set the computer's IP address in the same network segment.)



(2) Open the browser and input the IP address, e.g. 192.168.4.147, to access the login interface.



(3) Please enter the account/password to log in

Account : adminPassword : 9999



Chapter 4 Product Application and Connection

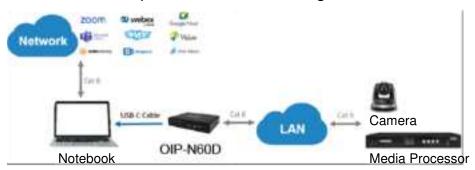
4.1 Virtual USB Network Camera

OIP-N60D can convert IP signal source to USB (UVC) for seamless integration with video conferencing platforms.

Note: When using a USB connection to the OIP, a USB 3.1 Gen2 (10Gbps) cable is required.

(1) Connection Method

- Connect the OIP-N60D to the LAN
- Connect the computer to the OIP-N60D using a USB-C 3.0 cable



(2) Webpage Settings

- [System] > [Output], open Virtual USB Setting
- [Source] > [Search new Source] > Select the desired output device > Click [Play] to output selected stream

(3) USB Camera Screen Output

- Launch Zoom, Microsoft Teams, or your preferred conferencing application.
- In the application, change the video source to:

Source Name: Lumens OIP-N60D

4.2 USB Network Camera Extension (OIP-N40E/OIP-N60D required)

OIP supports network bridging. Use OIP-N40E with OIP-N60D to extend the range of USB cameras over the local area network.

Note: When using a USB connection to the OIP, a USB 3.1 Gen2 (10Gbps) cable is required.

(1) Connection Method

- Connect the OIP Bridge to the local network
- Connect the USB camera to the OIP-N60D using USB-A cable
- Connect a monitor to the OIP-N60D using a HDMI cable
- Connect a computer to the OIP-N40E using a USB-C monitor transmission cable



- Computers can use a USB-C cable to connect to OIP-N40E and use USB network camera
- Computers can transmit images onto a TV through a USB-C connection to OIP-N40E



- (2) OIP-N60D Webpage Settings
 [System] > [Output], open USB Extender
- (3) OIP-N40E Webpage Settings
 - [System] > [Output] > Extender Source List
 - [Search new Source] > Click [Available] to select the OIP-N60D > Connection displays
 Connected
- (4) USB Camera Screen Output
- Launch Zoom, Microsoft Teams, or your preferred video conferencing app.
- Choose the video source, to output USB camera images

Source Name: Select the USB Camera ID



Chapter 5 Setting Menu

Using the rocker switch **[Menu]** enter the setting menu; the **bold underlined** values in the following table are defaults.

5.1 OIP-N60D

1st Level	2nd Level	3rd Level	Function Descriptions
Major Items	Minor Items	Adjustment Values	Function Descriptions
	Source List	-	Display the signal source list
Source	Blank Screen	-	Display black screen
	Scan	-	Update the signal source list
	HDMI Audio From	Off / Follow Stream/Follow Routing/ Follow Dante	Select the HDMI audio source
	Audio Out From	Off / Follow Stream/Follow Routing/ Follow Dante	Select where audio outputs to
Output	HDMI Output	By Pass Native EDID 4K@60/ 59.94/ 50/ 30/ 29.97/ 25 1080p@60/ 59.94/ 50/ 30/ 29.97/ 25 720p@60/ 59.94/ 50/ 30/ 29.97/ 25	Select the HDMI output resolution
	IP Mode	Static/ <u>DHCP</u> / Auto	Dynamic Host Configuration
	IP Address	192.168.100.200	
Network	Subnet mask (Netmask)	255.255.255.0	Configurable when set to <i>Static</i>
	Gateway	192.168.100.254	
Status			Display the current machine status



Chapter 6 Webpage Interface

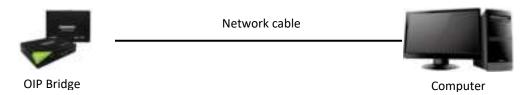
6.1 Connecting to Internet

Two common connection methods are shown below

1. Connecting via switch or router



2. To connect directly using a network cable, the IP address of the keyboard/computer should be changed and set as the same network segment.



6.2 Log into the webpage

1. Open the browser, and enter the URL of OIP-N in the IP address bar

E.g.: http://192.168.4.147

2. Enter the administrator's account and password

For a first-time login, please refer to <u>6.1.10 System- User</u> to change the default password

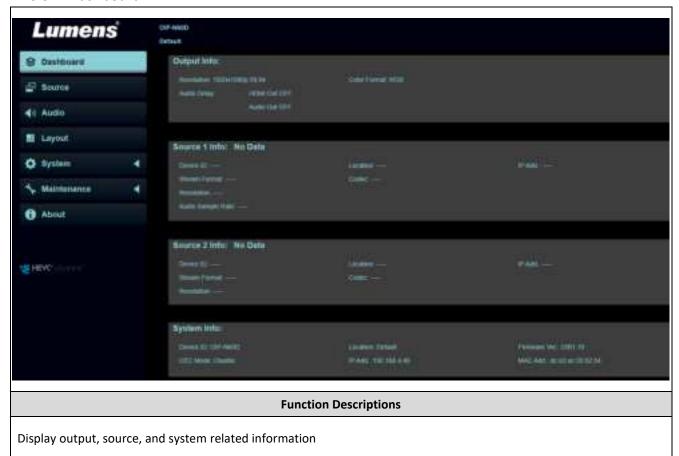
Lumens OIP Bridge

Account: admin

Password: 9999 (Default)

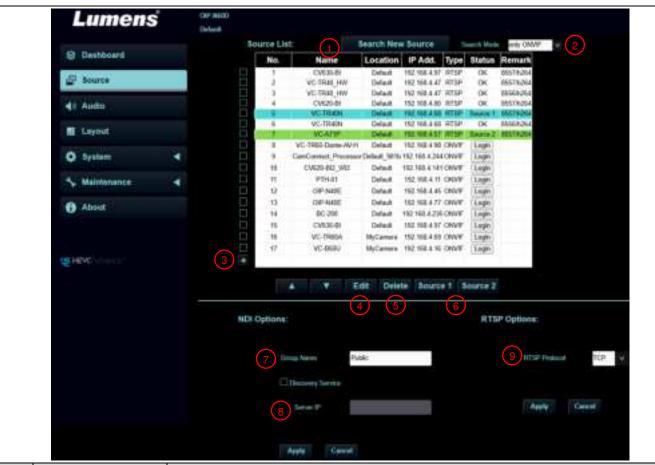
6.3 Webpage Menu Description

6.3.1 Dashboard





6.3.2 Stream



No	Item	Description
1	Search New Source	Click to search for devices in the same network segment and display them in a list
2	Search Mode (Only exists in	Search from NDI&ONVIF / Only NDI / Only ONVIF
	non-Dante version)	
3	+Add	Manually add a device
4	<mark>Edit</mark>	Edit a connected device in the list.
5	Delete	Delete selected device in the list
6	Source1 &2	After connecting the source, click the Source button to output the image. A maximum of two sources can be output at the same time. Note: The "Source 2" option will only be visible when the PBP or PIP function has been enabled in the Layout section.(Please refer to the section 6.3.4 Layout)
7	Group Name	The group name can be modified here and set with Access Manager - Receive in NDI Tool
8	Server IP	Discovery service. Select to enter the Server IP address
9	RTSP Protocol	Choose from TCP and UDP



Dante controller



To ensure the unit OIP-N60D can be recognized by the Dante Controller after enabling the Dante function, please follow the steps below:

- 1. Access the OIP-N60D web page
- 2. Navigate to the [Source] section
- 3. Select [Dante AV-H] as the source
- 4. Click [Source] to activate the stream

Remark: If the Source button is not activated, the device will not be detected properly by the Dante Controller.

6.3.3 Audio



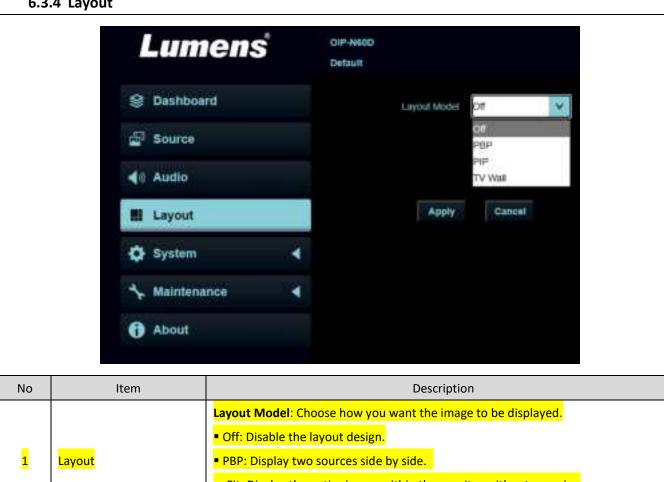


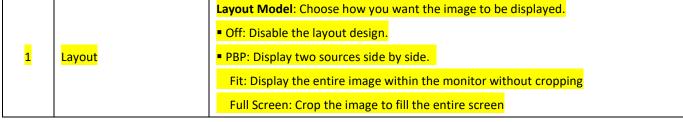
	■ Encode Type: AAC
	■ Encode Sample Rate: 48KHz
	■ Audio Volume: Volume adjustment 0~10
	Audio Out From: Follow Routing / Follow Stream / Follow Dante
HDMI Audio Out	■ Audio Volume: Volume adjustment 0~10
<mark>Enable</mark>	■ Audio Delay: Enable/disable Audio Delay, set the audio delay time (-1 ~ -500 ms) after
	enabling
	■ Audio Out From: Follow Routing / Follow Stream / Follow Dante
Audia Out Frakla	■ Audio Volume: Volume adjustment 0~10
3 Audio Out Enable	■ Audio Delay: Enable/disable Audio Delay, set the audio delay time (-1 ~ -500 ms) after
	enabling

Remark:

Please note that you cannot convert analog audio from the 3.5mm jack to USB UAC output.

6.3.4 Layout

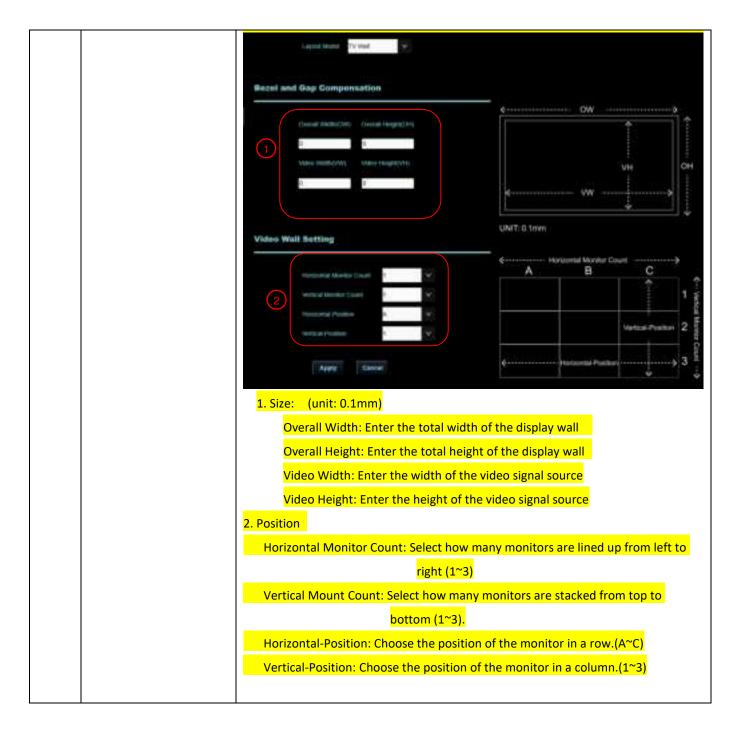






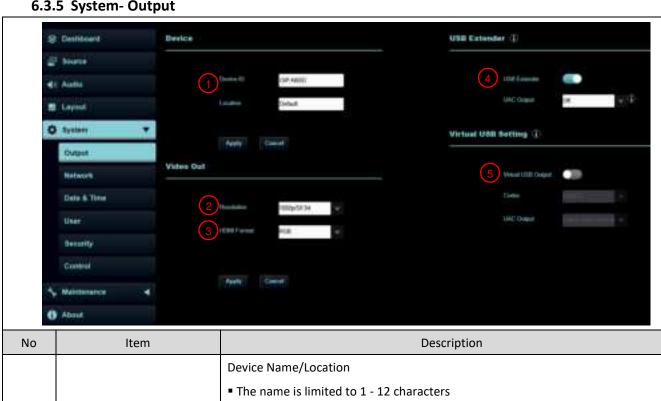








6.3.5 System- Output



No	Item	Description
		Device Name/Location
		■ The name is limited to 1 - 12 characters
1	Device ID/ Location	■ The location is limited to 1 - 11 characters
1	Device ID/ Location	■ Please use uppercase and lowercase letters or numbers for characters. Special
		symbols such as "/" and "space" cannot be used
		Modifying this field will modify the Onvif device name/location.
		By Pass
		Native EDID
<mark>2</mark>	Resolution	<mark>4К@60/ 59.94/ 50/ 30/ 29.97/ 25</mark>
		1080p@60/ 59.94/ 50/ 30/ 29.97/ 25
		720p@60/ 59.94/ 50/ 30/ 29.97/ 25
3	HDMI Format	Set HDMI format from YUV422/RGB/YUV444
		Turn on/off USB network camera extension (Can only be configured when the
<mark>4</mark>	USB Extender	Video output resolution is set to 4K 30 fps or lower)
		The USB camera will be displayed in the UAC output list once it has been detected.
	5 Virtual USB output	Enable / Disable
<mark>-</mark>		Choose from Follow Video source / Follow Dante
<mark>></mark>		(Can only be configured when the Video output resolution is set to 4K 30 fps or
		lower)



6.3.6 System- Network



No	Item	Description
1	DHCP	Ethernet setting for OIP Bridge. Change of setting is available when DHCP function is disabled.
2	HTTP Port	Set HTTP port. The default Port value is 80

6.3.7 System- Date & Time



Function Descriptions

Display the current device/computer date and time, and set the display format and synchronization method When Manually Set is selected for [Time Settings], Date & Time can be customized



6.3.8 System-User



Function Descriptions

Add/Modify/Delete user account

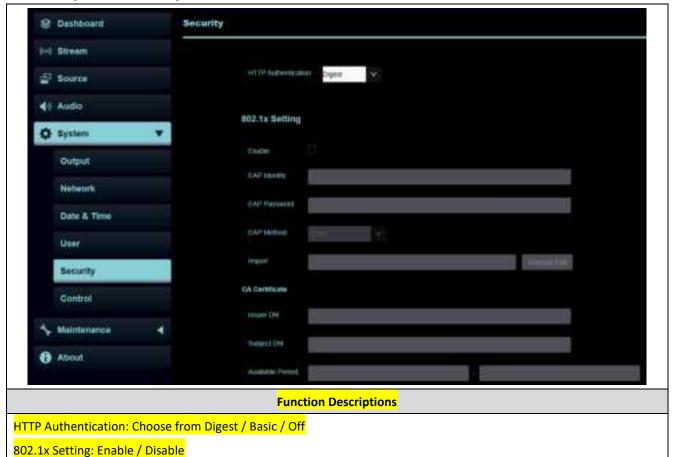
- Supporting 4 32 characters for user name and password
- Please use uppercase and lowercase letters or numbers for characters. Special symbols or the underlined cannot be used
- Authentication Mode: Set the new account management permissions

User Type	Admin	Viewer
View	v	V
Setting/Account	V	х
management		

₩When Factory Reset is executed, it will clear the user's data



6.3.9 System - Security



6.3.10 System – Control



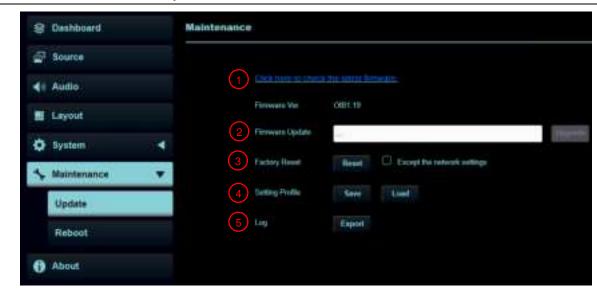
HELLO: Enable this button to make the indicator light on the unit blink for one minute. It will then automatically turn

Lumens'

CEC: Enable / Disable the CEC

off.

6.3.11 Maintenance - Update



No	Item	Description	
1	Eirmwara link	Click on the link to the Lumens website and enter the model to obtain the latest	
1	1 Firmware link firmware version information		
		Select the firmware file, and click [Upgrade] to update the firmware	
2		Update takes about 2 - 3 minutes	
2	Firmware Update	Please do not operate or turn off the power of the device during the update to	
		avoid firmware update failure	
3	Factory Reset	Reset all configurations to factory default settings	
4	Setting Profile	Save setup parameters. Users can download and upload device setup parameters	
<mark>5</mark>	Log	Export the log file containing the records from the recent period.	

6.3.12 Maintenance – Reboot



No	Item	Description	
1	Reboot	Click the button to reboot the unit	
2	Schedule Reboot	Disable Schedule: Turn off the schedule reboot function.	



Daily Reboot Time: Set the exact time the unit will automatically reboot. (Can only be enabled when SNTP is selected in the Time Setting section.)

Reboot Timing: Set the reboot interval, from 1 to 24 hours.

6.3.13 About



Function Descriptions

Display the firmware version, serial number, and other related information of the OIP Bridge

For technical support, please scan the QR Code at the bottom right for assistance



Chapter 7 Troubleshooting

This chapter describes problems you may encounter while using OIP Bridge. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurs, please contact your distributor or the service center.

No.	Problems	Solutions
	OIP-N40E webpage USB extender	Confirm that the OIP-N60D has enabled the USB extender function
1.	cannot find OIP-N60D on the same	2. Confirm that the management switch in the network has disabled
	network segment	the blocking of multicast packets
	Recommended specifications for	
2.	USB-C cables	Transfer rate of 10 Gbps or higher
		When using OIP-N products with a network switch, it is recommended
		to configure the following settings:
		1. Select a switch where every port supports 1Gbps transmission
		2. Use a switch that supports QoS (Quality of Service) with 4 queues and
3.	Recommended Switch	strict priority; QoS should be enabled when both 100Mbps and 1Gbps
J.	Configuration	devices exist in the same local network
		4. Enable IGMP Snooping
		5. It is recommended to choose a managed switch (Layer 2 or above)
		6. It is advisable to disable EEE (Energy Efficient Ethernet) or similar
		power-saving features



Chapter 8 Safety Instructions

Always follow these safety instructions when setting up and using the product:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat.
- 1.2 Do not place the product on a tilted or unstable trolley, stand or table.
- 1.3 Please clean the dust on the power plug prior to usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- 1.4 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.5 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.6 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

2.1 For security considerations, please make sure the standard mount you use is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

5 Batteries (for products or accessories with batteries)

- 5.1 When replacing batteries, please only use similar or the same type of batteries
- 5.2 When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products

■ Precautions



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are to provide reasonable protection from harmful interference in residential installations.



■ IC Warning

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe B prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.



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