

HG658d Home Gateway

User Guide





HG658d Home Gateway V100R001

User Guide

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1 Connecting Cables and Getting Started

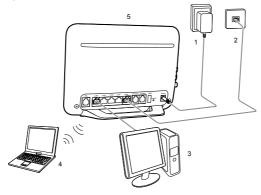
Thank you for purchasing the HG658d (HG658d for short).

You can go online using the Ethernet and DSL modem services. However, you can only use one type of service at one time.

1.1 Connecting Cables Using the WAN Port

Connecting Cables

If there is at least one Ethernet wall jack available in your home, you can access the Internet using the Ethernet.



1 Power adapter 2 Ethernet wall jack 3 Desktop computer

4 Laptop computer 5 HG658d

Getting Started

After connecting the cables, press the **On/Off** button on the side panel to power on the HG658d.

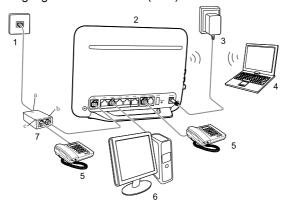
After you power on the HG658d, the **Power** indicator turns on, the **INTERNET** indicator turns on. This indicates that the HG658d is working properly. When the

INTERNET indicator starts blinking, data is being transmitted between the HG658d and the connected device.

1.2 Connecting Cables Using the DSL Port

Connecting Cables

If there is at least one telephone jack available in your home, you can access the Internet using digital subscriber line (DSL) services.



1	Telephone wall jack	2	HG658d	3	Power adapter
4	Laptop computer	5	Telephone	6	Desktop computer
7	Splitter				
а	LINE port	b	MODEM port	С	PHONE port

Getting Started

After connecting the cables, press the **On/Off** button on the side panel to power on the HG658d.

After you power on the HG658d, the **Power** indicator turns on. The **WAN** indicator lights up and starts blinking. This indicates that the **DSL** port activation is in progress. The blinking may last less than 3 minutes. When the **WAN** indicator stops blinking and remains on, the HG658d is working properly.



To power off the HG658d, press the **On/Off** button on the side panel, and then unplug the power adapter.

2 Setting Network Access Parameters

2.1 Logging in to the Web-based Configuration Utility

Most parameters of the HG658d are pre-set before delivery to meet common home application scenarios. To check the HG658d's working status or configure certain advanced network functions, use the web-based configuration utility.

To log in to the web-based configuration utility:

- 1. Open a browser on your computer. Enter http://192.168.1.1 in the address box, and then press Enter.
- 2. On the login page, enter your user name (**user** by default) and password (**HuaweiUser** by default).Click **Login**.

After the system verifies your account information, the web-based configuration utility is displayed.

2.2 Configuring Internet Access Parameters

After logging in to the web-based configuration utility, you can use the setup wizard to quickly configure the HG658d.

- 1. Log in to the web-based configuration utility.
- 2. Click Setup Wizard.
- 3. Click Next.
- 4. In **User name** and **Password**, enter the user name and password that are provided by your service provider, and then click **Next**.
- Set WLAN parameters by choosing Basic > WLAN. You can configure the SSID and WPA pre-shared key. The default wireless network name (SSID) are printed on the label of the HG658d's rear panel are preset before delivery. And then click Next.
- 6. Check that the wireless name you set is correct, and then click Submit.

3 Setting Up a Wireless Connection

If a wireless network adapter is installed on your computer, you can connect your computer to the HG658d over a wireless connection.



The method for installing the wireless adapter and its driver varies by vendor. For details, see the installation guide provided by the vendor of your wireless adapter.

There are two methods for setting up a wireless connection between the HG658d and your computer.

3.1 Setting up a Wireless Connection Using the WPS Button

The HG658d supports the Wi-Fi Protected Setup (WPS) function in Push Button Configuration (PBC) mode. If your wireless network adapter also supports the WPS function, do the following to connect your computer to the HG658d over a wireless connection:

- Press and hold the WPS button (on the HG658d side panel) more than 1 second.
- 2. The **WLAN** indicator light on the HG658d starts blinking, indicating that the HG658d is in the WPS negotiation state.
- 3. Enable the WPS negotiation function on the computer within 2 minutes of the previous step.
- 4. Wait until the HG658d **WLAN** indicator light stops blinking and remains steady on. This indicates that a wireless connection is set up between the HG658d and the computer.



The WPS function can be used only when the security mode of the WLAN is set to **WPA2-PSK** or **WPA-PSK/WPA2-PSK**.

3.2 Setting up a Wireless Connection Manually

Besides using the WPS button, you can also set up a wireless connection manually.

The following example uses a computer running the Windows XP operating system to describe how to set up a wireless connection using the default wireless network name and password:

- 1. Find the wireless network name (SSID) and its password (WLAN Key) printed on the label of the HG658d's rear panel.
- 2. Start the wireless configuration service of the Windows XP operating system as follows:
 - 1) Right-click **My Computer** to display a short-cut menu, and then choose **Manage**.
 - In the Computer Management window, choose Computer Management (Local) > Services and Applications > Services.
 - 3) Right-click **Wireless Zero Configuration** to display a shortcut menu, and then choose **Properties**.
 - Check that Service status is Started. If Service status is not Started, click Start.
 - 5) Click **OK** to close the dialog box, and the close the **Computer Management** window.
- 3. Configure the wireless network connection on the computer as follows:
 - Choose Start > All Programs > Accessories > Communications > Network Connections.
 - 2) In the **Network Connections** window, right-click **Wireless Network Connection** to display a shortcut menu, and choose Properties.
 - In the Wireless Network Connection Properties dialog box, click the Wireless Networks tab.
 - 4) Select **Use Windows** to configure my wireless network settings.
 - 5) Click View Wireless Networks.

- 6) In the Wireless Network Connection dialog box, select the wireless network whose name is the same as the one you recorded in 1, and click Connect.
- In the dialog box, enter the password you recorded in 1, and then click Connect.

After the system verifies the password, **Connected** appears on the wireless network icon in the wireless network list, indicating that your computer has established a wireless connection to the HG658d.

8) Close the Wireless Network Connection dialog box.



You need to set up a wireless connection only once. You can access the wireless network anytime you want as long as the wireless network name and password are not changed. When the HG658d is working properly, your computer connects to the HG658d automatically after its wireless function is enabled.

4 Voice Services

The HG656c supports voice over IP (VoIP) services based on Session Initiation Protocol (SIP).SIP is an application layer protocol used to create, modify, and end multimedia sessions.

The HG658d's Voice over Internet Protocol (VoIP) parameters are set before delivery. Generally, these parameters do not need to be modified. You can use the VoIP services directly.

5 Configuring the HG658d

5.1 Accessing Mobile Storage Devices Using the FTP Client

The HG658d supports a home storage function. Mobile storage devices, such as a USB flash drive, can be connected to the USB port on the HG658d. You

can then access the mobile storage devices from the Local Area Network (LAN) or Internet.

To access a mobile storage device:

- 1. Connect the mobile storage device to the HG658d's USB port.
- 2. Enable the FTP server, and then configure the FTP server settings.
 - 1) Log in to the web-based configuration utility.
 - 2) Choose Advanced > USB Port.
 - 3) Select Enable FTP Server.
 - 4) In User name and Password, enter the user name and password of the FTP server (both default values are ftp). Keep the default settings of other parameters.
 - 5) Enter a server port number (default is 21) in the Port text box.
 - 6) Click **Submit** to save the settings.
- Start the FTP client, and access the HG658d's LAN IP address through the FTP server.
 - 1) On your computer, open a web browser.
 - 2) Enter FTP://192.168.1.1 in the address box, and then press Enter.
 - 3) In the **Login** dialog box, enter the user name and password for the FTP server (values that you set in 2), and then click **Login**.

After the system verifies the user name and password, you can read data from or write data to the mobile storage device connected to the HG658d.

5.2 Changing the User Name and Password for the Web-based Configuration Utility

For safety or convenience reasons, you can change the user name and password for the web-based configuration utility.

To change the login user name and password:

1. Log in to the web-based configuration utility.

- 2. Choose **Maintenance** > **Account** to display the user information management page.
- 3. Enter a new user name, your current password, and new password in the corresponding text boxes. Re-enter the new password to confirm it.
- 4. Click Submit.

After the user name and password are changed, the login page is displayed again. Enter your new user name and password to log in.



If you cannot remember the user name and password that you have set, you can restore them to their default settings by pressing and holding the **Reset** button for over 6 seconds. Once complete, the login information of the web-based configuration utility is restored to default settings. When the default settings are restored, your custom data is lost. Therefore, exercise caution when using the **Reset** button.

5.3 Changing the Login IP Address

You can change the login IP address of the web-based configuration utility according to your individual requirements.

To change the login IP address:

- 1. Log in to the web-based configuration utility.
- 2. Choose Basic > LAN.
- 3. Enter a new IP address in the **IP address** text box, and then enter a subnet mask in **Subnet mask** text box
- 4. Click **Submit** to save the settings.



To log in to the web-based configuration utility after you change the login IP address, enter the new IP address into the web browser's address box. Ensure that the IP address of the computer is in the same network segment as that of the HG658d to enable the computer to access the web-based configuration utility.

5.4 Enabling or Disabling the Wireless Network Function

There are two methods for enabling or disabling the wireless network function.

Using the WLAN Button

To enable or disable the wireless network function, press the **WLAN** button more than 1 second. The **WLAN** indicator light indicates the status of the wireless network function.

Using the Web-based Configuration Utility

To enable or disable the wireless network function from the web-based configuration utility:

- 1. Log in to the web-based configuration utility.
- 2. Choose Basic > WLAN.
- Select Enable WLAN.
- Select **Enable WLAN** to enable the wireless network function.
- Clear Enable WLAN to disable the wireless network function.

5.5 Changing the Wireless Network Name and Password

The default wireless network encryption mode is **WPA-PSK/WPA2-PSK**. You can find the default wireless network name (**SSID**) and password (**WLAN Key**) printed on the label of the HG658d's rear panel.

To change the wireless network name and password:

(This example uses WPA-PSK/WPA2-PSK encryption mode.)

- 1. Log in to the web-based configuration utility.
- Choose Basic > WLAN.
- Select Enable WLAN.
- Enter a wireless network name in SSID text box.

- For Security Mode, select WPA-PSK/WPA2-PSK. Enter a password in WPA Pre-Shared Key text box. Use default settings for other parameters.
- 6. Click Submit.

You will be prompted to enter this password when connecting wireless devices, such as a computer, to the HG658d's wireless network. You cannot connect to the HG658d's wireless network if you enter an incorrect password.



If you cannot remember the wireless network name and password, log in to the web-based configuration utility to set a new name and password. Alternatively, you can restore the HG658d to its default settings. The name and password are then restored to the values printed on the label of the HG658d's rear panel.

5.6 Configuring the Firewall

The firewall can protect the terminal against malicious access on the WAN port and is used when the HG658d works in routing mode. To configure the firewall, do as follows:

- 1. Log in to the HG658d's web-based configuration utility.
- 2. Choose **Advanced** > **Firewall** to display the firewall page.
- 3. Select a firewall level for **Firewall level**.
- 4. Click Submit.

5.7 Restoring Default Settings



If you restore the HG658d to default settings, all customized user data will be lost. Therefore, exercise caution when using this function.

To restore the HG658d to default settings, power on the HG658d, press and hold the **Reset** button more than 6 seconds, and then release.

You can also restore the HG658d to default settings from the web-based configuration utility:

- 1. Log in to the web-based configuration utility.
- Choose Maintenance > Device.
- 3. Click Restore Default Settings.
- 4. In the displayed dialog box, click **OK**.

After the preceding steps are complete, the login page is displayed. You can then enter the default user name (**user**) and password (**HuaweiUser**) to log in.

5.8 Restarting the HG658d

- 1. Log in to the web-based configuration utility.
- 2. Choose Maintenance > Device.
- 3. Click Reboot.

6 FAQs

How can I quickly enable or disable the wireless network function?

Press and hold the **WLAN** button more than 1 second, and then release. The **WLAN** indicator light indicates the status of the wireless network function.

How can I quickly restore the HG658d to its default settings?

To restore the HG658d to default settings, press and hold the **Reset** button for over 6 or more seconds when the HG658d is powered on, and then release.

What can I do if I cannot access the Internet?

1. Check that the **Power** indicator on the HG658d is steady on.

If the **Power** indicator is off, perform further checks as follows:

- 1) Check that the HG658d is turned on.
- 2) Check that electricity comes from the socket and that the power input from the socket meets the requirements described on the label of the HG658d's power adapter. If the voltage is unstable, for example, if the voltage is too high or too low, do not use the HG658d. Wait until the voltage recovers, and then use the HG658d.
- 3) Check that the HG658d is securely connected to the socket using its power adapter.
 - If the **Power** indicator is still off, contact an authorized maintenance center.
- 2. After powering on the HG658d, wait for about 3 minutes. Then check whether the **WAN** indicator turns steady on.

If the WAN indicator is off, perform further checks as follows:

- 1) Check that the telephone line is correctly and securely connected, especially the connection between the telephone line and the splitter.
- Check that the HG658d and telephone line are located far from any electric appliances that generate strong magnetic or electric fields. Replace the telephone line when necessary.

If the **WAN** indicator is still off, contact your network service provider.

- 3. Check that you have entered the correct user name and password.
- 4. The user name and password are provided by your network service provider. To check the user name and password, see section 0" Configuring Internet Access Parameters".
- 5. Check whether the **LAN** indicator is on.

If the **LAN** indicator is off, perform further checks as follows:

- 1) Check that the network adapter on your computer is enabled.
- Check that the network cable between the HG658d and the computer is securely connected. Remove and then insert the network cable or replace the network cable when necessary.

If the **LAN** indicator is still off, contact an authorized maintenance center.

- 6. Check that the driver for the network adapter is correctly installed. The following example uses a computer running the Windows XP operating system to check whether the driver for the network adapter is installed:
 - 1) Right-click **My Compute**r, and choose **Manage** from the displayed shortcut menu.
 - 2) In the Computer Management window, click Device Manager.
 - 3) In the right pane of the **Computer Management** window, click **Network adapters**.

If no network adapter is found or if a question mark (?) or an exclamation mark (!) is displayed next to the network adapter icon, the driver for the network adapter is not correctly installed. Re-install the driver.

- 7. Check that the proxy server of the browser is correctly configured. The following example uses Internet Explorer on the Windows XP operating system to check whether the proxy server of the browser is correctly configured:
 - 1) Launch Internet Explorer.
 - 2) Choose Tools > Internet Options.

- 3) In the Internet Options dialog box, click the Connections tab.
- 4) In the Local Area Network (LAN) settings area, click LAN Settings.
- 5) In the Proxy server area of the Local Area Network (LAN) Settings dialog box, check that the Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections.) check box is cleared.
- 8. Try to access more websites to check whether the HG658d can access these websites.

If the problem persists, contact your network service provider.

What can I do if I cannot access the Web-based configuration utility?

- 1. Refer to "What can I do if I cannot access the Internet?" to check that the power supply, telephone line, and network line are working properly.
- Check that the computer's IP address and the HG658d's LAN IP address are in the same network segment, and that the browser is not using a proxy server.



To ensure that the computer's IP address and the HG658d's LAN IP address are in the same network segment, you can set the computer to obtain an IP address automatically.

3. Check that the correct user name and password are used to log in to the Web-based configuration utility.

If the problem persists, restore the HG658d to its default settings. For details, see "How can I quickly restore the HG658d to its default settings?"

What can I do if I cannot access the Internet over a wireless connection?

- Check that all cables are securely connected, such as the power adapter cable and the telephone line.
- 2. Check whether the WLAN indicator is on.
 - If the **WLAN** indicator is off, the wireless network function is disabled, and you need to turn on the wireless network function.
- 3. Read the user guide of the wireless network adapter, and check whether the wireless network adapter supports the 802.11b, 802.11g, or 802.11n

protocol.

If the wireless network adapter does not support any of the preceding protocol, replace it.

- Check whether the driver for the wireless network adapter is correctly installed
 - If the driver is not correctly installed, re-install it using the driver program provided with the wireless network adapter.
- 5. Check whether the computer receives wireless signals properly. The following example uses the computer running the Window XP operating system to check wireless signal reception:
 - 1) Choose Start > Control Panel. Double-click Network Connections.
 - In the Network Connections window, right-click Wireless Network Connection, and choose View Available Wireless Networks.
 - If the computer cannot find the wireless network, move the computer closer to the HG658d. Check that there are no obstacles, such as walls, between the computer and the HG658d.
- 6. Check whether the computer is connected to the HG658d's wireless network. On the wireless network list, check whether the HG658d's wireless network is displayed as Connected.
- 7. Try to access more websites to check whether the HG658d can access these websites.

If you still cannot access the websites, restore the HG658d to its default settings. If the problem persists, contact your network service provider.

What can I do if sometimes the terminal cannot access the Internet over a wireless connection or if the wireless connection is unstable?

- Check the positions of the HG658d and the computer. Ensure that they
 are located far from the electric appliances such as microwave ovens,
 refrigerators, or cordless telephones that generate strong magnetic or
 electric fields.
- 2. Place the HG658d in an open area.
 - Although radio signals can pass through obstacles, their transmission is affected if they pass through too many obstacles such as walls.

- 3. Move the computer closer to the HG658d.
- 4. Place the HG658d and the computer in another direction.
- 5. Try to avoid using wireless network connection during thunderstorms.

What can I do if the wireless network is not encrypted but the computer cannot connect to the wireless network?

1. Delete wireless network configuration from the computer.

The following example uses a computer running the Window XP operating system:

- 1) Choose Start > Control Panel. Double-click Network Connections.
- 2) In the Network Connections window, right-click **Wireless Network Connection**, and choose **Properties**.
- In the Wireless Network Connection Properties dialog box, click the Wireless Networks tab.
- In the Preferred Networks area, select a wireless network, and click Remove.
- Delete all the other wireless network connections from the Preferred Networks area.
- 6) Click **OK**.
- 2. Set up an unencrypted wireless network connection.

Does the WPS function have any special requirements on the wireless encryption settings of the HG658d?

The WPS function can be used only when the security mode of the wireless network is set to **WPA2-PSK**, or **WPA-PSK/WPA2-PSK**, and the SSID is set to **SSID1**. It is recommended that you set the security mode to **WPA-PSK/WPA2-PSK**.

What can I do if I cannot set up a wireless connection between the HG658d and the computer by pressing the **WPS** button?

- Check that only one computer tries to connect to the HG658d using the WPS function at a time.
- Check that the wireless network function and the WPS function in PBC mode are enabled on the HG658d.

- 3. Check that the security mode of the wireless network is set to WPA2-PSK, or WPA-PSK/WPA2-PSK, and SSID is set to SSID1.
 - Note that the WPS function is forcibly disabled if the wireless network uses the Wired Equivalent Privacy (WEP) encryption.
- 4. Check the positions of the HG658d and the computer. Ensure that they are far from the electric appliances such as microwave ovens, refrigerators, or cordless telephones that generate strong magnetic or electric fields.
- 5. Place the HG658d in an open area.

Although radio signals can pass through obstacles, their transmission is affected if they pass through too many obstacles such as walls.

What can I do if noises exist during telephone calls?

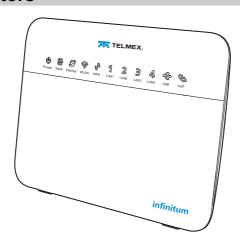
- 1. Check that a splitter is installed.
 - A splitter helps to protect the ADSL call quality from being affected due to the interference of other signals.
- Check that telephone lines are securely connected. In particular, ensure that the telephone line connecting to the splitter is securely connected.
- Replace telephone lines and ensure that the telephone lines are not faulty.

After a broadband device is installed, does Internet access degrade call quality or do telephone calls lower the Internet access rate?

No. The HG658d uses the frequency division multiplexing (FDM) and splitter technologies to separate voice signals from data signals. Although these two types of signals are transmitted through one telephone line, they are carried by different frequency bands. Therefore, they do not interfere with each other. In this case, you can make telephone calls and access the Internet at the same time, without degrading call quality or lowering the Internet access rate.

7 Technical Specifications

7.1 Indicators

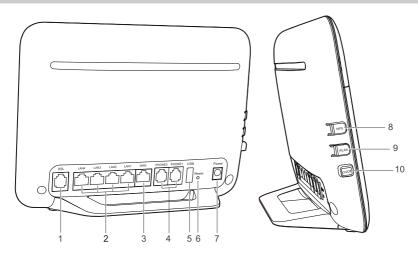


Indicator	Color	Status	Description
Power	Green	On	The HG658d is powered on.
	-	Off	The HG658d is powered off.
WAN	Green	On	The DSL connection is established and activated. Or the GE connection is successfully established but no data is being transmitted.
	Green	Blinking	The DSL connection is being activated. Or the GE connection is successfully established and data is being transmitted.
	-	Off	The HG658d is powered off or no DSL or no GE connection is established.

Indicator	Color	Status	Description
Internet	Green	On	The HG658d is connected to the Internet in router mode, but no data is being transmitted.
	Green	Blinking	The HG658d is connected to the Internet in router mode, and data is being transmitted.
	-	Off	 The HG658d is powered off. The HG658d is working in bridge mode. No ADSL connection is established.
WLAN	Green	On	The WLAN function is enabled, but no data is being transmitted on the WLAN.
	Green	Blinking	The WLAN function is enabled and data is being transmitted on the WLAN.
	-	Off	The WLAN function is disabled.
WPS	Green	On	The HG658d is connected to a wireless client, such as a computer with a wireless network adapter, over the WLAN using the Wi-Fi Protected Setup (WPS) function. The WPS indicator is steady on for 300 seconds.
	Green	Blinking	A wireless connection is set up between the HG658d and a wireless client using the WPS function. The WPS indicator blinks for 120 seconds or less.
	-	Off	WPS is disabled.
LAN1 ~ LAN4	Green	On	The LAN connection is successfully established but no data is being transmitted.
	Green	Blinking	The LAN connection is successfully established and data is being transmitted.

Indicator	Color	Status	Description
	-	Off	The HG658d is powered off. No LAN connection is established.
USB	Green	On	The USB connection is successfully established in USB host mode but no data is being transmitted.
	Green	Blinking	The USB connection is successfully established in USB host mode and data is being transmitted.
	-	Off	The HG658d is powered off.No USB connection is established.
VoIP	Green	On	The HG658d is registered with a SIP (Session Initiation Protocol) server, but no data is being transmitted.
	Green	Blinking	The HG658d is registered with a SIP server, and data is being transmitted.
	-	Off	The HG658d is not registered with a SIP server.

7.2 Ports and Buttons



No.	Port or Button	Function
1	DSL	Connect the HG658d to the MODEM interface on the splitter.
2	LAN1 ~ LAN4	Connect the HG658d to the Ethernet interface on the computer or STB.
3	WAN	Used to connect the HG658d to the network.
4	PHONE1, PHONE2	Connect the HG658d to the telephone.
5	USB	Connect to the USB device.
6	Reset	Restore the default settings of the HG658d.
7	Power	Connect the power adapter to the HG658d.
8	WPS	Enable the WPS negotiation function.
9	WLAN	Enable or disable wireless network function quickly.

No.	Port or Button	Function
10	On/Off	Power on or off the HG658d.

7.3 Default Settings

Parameter	Default Settings
LAN IP address	192.168.1.1
LAN subnet mask	255.255.255.0
User name for web-based configuration utility login	user
Password for web-based configuration utility login	HuaweiUser
Wireless network name (WLAN Name) for wireless connection	See the label printed on the HG658d's rear panel.
Password (WLAN Key) for wireless connection	See the label printed on the HG658d's rear panel.
DHCP server	Enable
Wireless network	Enable

7.4 Product Specifications

Item	Specifications
Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	5% to 95%, non-condensing
Dimensions (H × W × D)	158 mm × 210 mm × 33 mm (excluding the rack) 158 mm × 210 mm × 67 mm (including the rack)
Weight	About 320g (only the HG658d) About 470g (all included)

Item	Specifications		
Standards	ADSL	● G.993.1	
	standards	• G.993.2	
		• G.992.1	
		● G.992.3 ● G.992.5	
		● G.992.5 ● T1.413	
	ADSL2 standard	G.992.3 (G.dmt.bis) Annex L	
	ADSL2+ standard	G.992.5 (G.dmt.bitplus)	
	VDSL standard	G.993.2	
	LAN standards	802.3、802.3u	
	WAN standards	802.3、802.3u	
Wireless transmission rates	802.11b mode	Up to 11 Mbit/s	
	802.11g mode	Up to 54 Mbit/s	
	802.11n mode (2 x 2 antenna used)	Up to 300 Mbit/s	

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