



State of the art hyper-optimized video management platform designed for ease, speed and efficiency. Blackjack Ai HDX slim desktop servers — Up to 480Mbps

	DW-BJAiHDX51xxT	DW-BJAiHDX71xxT	
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Default Login Information for DW Spectrum®

Username: admin	Password: admin12345	
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Default login information for the server's OS

Username: dwuser	Password: Dw5pectrum
Osername: dwuser	Password: Dwspectrum

	WHAT'S IN	N THE BOX		
Blackjack Ai HDX™ server	1	Keyboard and mouse	a a a a a a a a a a a a a a a a a a a	1 set
Quick start guide	1	Power cable		1

NOTE: Download all your support materials and tools in one place.

- 1. Go to: http://www.digital-watchdog.com/support-download/.
- 2. Search your product by entering the part number in the '**Search by Product**' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
- 3. Click '**Search**'. All supported materials, including manuals, Quick start guides (QSG), software and firmware will appear in the results.

Attention: This document is intended to serve as a quick reference for initial setup. See the DW Spectrum[®] full manual for more information on features and functionality.

HARDWARE OVERVIEW



Default login information for DW Spectrum

Username: admin	Password: admin12345
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Default Login Information for the server's OS

Username: dwuser	Password: Dw5pectrum
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SPECIFICATIONS

PART NUME	BER	DW-BJAiHDX7	DW-BJAiHDX5		
Included DV	V Spectrum IP licenses	4 (DW-SPECTRUMLSC004)	4 (DW-SPECTRUMLSC004)		
Included DV	V Ai Server Licenses	4 channel (DW-DWAiSLSC004)	4 channel (DW-DWAiSLSC004)		
Form Factor	r	Slim Desktop	Slim Desktop		
Operating S	System	Windows 11 IoT Enterprise LTSC	Windows 11 IoT Enterprise LTSC		
OS on SSD		480GB SSD	480GB SSD		
CPU		12th Gen Intel Core i7 processor	12th Gen Intel Core i5 processor		
Memory		16GB	16GB		
Ethernet Po	rt	1 x 1Gb Ethernet, 1x 2.5Gb Ethernet	1 x 1Gb Ethernet, 1x 2.5Gb Ethernet		
	Max video storage rate (Mbps)	480Mbps	320Mbps		
System streams (second Maximum HD Storage Option USB interface	Max # of analytic streams (secondary)	Up to 10	Up to 10		
	Maximum HDD	2 x SATA HDD	2 x SATA HDD		
	Storage Options	8TB, 12TB, 16TB, 20TB, 24TB, 32TB, 40TB	8TB, 12TB, 16TB, 20TB, 24TB, 32TB, 40TB		
	USB interface	Yes	Yes		
	Outroute	1x true HD, 1x DP for system configuration.	1x true HD, 1x DP for system configuration.		
Vielee ent	Outputs	Maximum 1 display output at a time	Maximum 1 display output at a time		
Video-out	Graphics Card	On board Intel Xe Graphics	On board Intel Xe Graphics		
	Al Processor	Hailo 8	Hailo 8		
Preloaded V	/MS software	DW Spectrum	DW Spectrum		
DW Spectru	um Client supported OS	Cross-platform - Windows, Linux Ubuntu and Mac	Cross-platform - Windows, Linux Ubuntu and Mac		
Preloaded A	Analytic software	DW Ai Server	DW Ai Server		
Ai Configura	ation Tool supported OS	Cross-platform - Windows and Linux Ubuntu	Cross-platform - Windows and Linux Ubuntu		
Mobile apps	5	iOS and Android	iOS and Android		
Keyboard aı	nd mouse	Included	Included		
Power supp	ly	300W**	300W**		
Operating te	emperature (room)	41°F~104°F (5°C~40°C)	41°F~104°F (5°C~40°C)		
Operating h	umidity	20~90% RH	20~90% RH		
Dimonsia		Standing: 13.1" x 3.88" x 15.8" (334 x 98.5 x 402 mm),	Standing: 13.1" x 3.88" x 15.8" (334 x 98.5 x 402 mm),		
Dimension (Desktop: 3.88" x 13.1" x 15.8" (98.5 x 334 x 402 mm)	Desktop: 3.88" x 13.1" x 15.8" (98.5 x 334 x 402 mm)		
Other certifi	ication	NDAA, TAA	NDAA, TAA		
Warranty		5 year limited	5 year limited		

Specifications and components mentioned are subject to change without notice.

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SETTING UP THE SERVER

STEP 1: Connect external devices, power and network.

- Connect a monitor, USB keyboard, mouse, and network cable to Ethernet port B13 (1G LAN) on the rear panel diagram. Configure the camera network first, then the server's local network.
 - NOTE See page 2 for detailed back panel breakdown for each model.
- 2. Connect the server to an appropriate power source. A UPS system (600VA or higher) is recommended.
- Connecting the power cable to a live power source should turn on the server automatically. If not, press the power button on the front panel (F1 on the front panel diagram).

STEP 2: Configure date and time

- 1. Double-click on the **Date and Time** icon on the desktop.
- 2. The default time zone is UTC-08:00 Pacific Time. Click **Change time zone...** to change to the correct time zone.

😭 Time Zone Settings	×
Set the time zone:	
Time zone:	
(UTC-08:00) Pacific Time (US & Canada)	~
(UTC-08:00) Pacific Time (US & Canada) (UTC-07:00) Arizona (UTC-07:00) Chihuahua, La Paz, Mazatlan (UTC-07:00) Chihuahua, La Paz, Mazatlan (UTC-06:00) Central Armerica (UTC-06:00) Central Armerica (UTC-06:00) Caster Island (UTC-06:00) Guadalajara, Mexico City, Monterrey (UTC-06:00) Saskatchewan (UTC-05:00) Bogota, Lima, Quito, Rio Branco (UTC-05:00) Chetumal (UTC-05:00) Estern Time (US & Canada)	^

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PoE switch for cameras

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- 3. Click **OK** after selecting the correct time zone.
- Click Change date and time... to update the date and time if they are incorrect. Change date and time...
 NOTE: Verify the time zone before updating the date and time. Time may show 2 or 3 hours off due to an incorrect time zone.

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9 6 3 0 7 3	30 7 14 21 28 4	1 8 15 22 29 5	We 2 9 16 23 30 6	3 10 17 24	4 11 18 25 1 8	5 12 19	11: 16: 32 AM +

5. Press **OK** after adjusting to the correct date and/or time. Press **OK** to close the date and time when done.

STEP 3: Configure network

Please have the following information ready before starting the network configuration.

	Camera network	Local network (LAN)
IP address		
Subnet mask / Netmask		
Default gateway / Gateway	N/A	
DNS servers	N/A	

* Camera network and local network cannot be on the same network.

NOTE The Blackjack server's network settings are set to DHCP by default.

NOTE If you are not sure what information to enter, contact your Network Administrator or Internet Service Provider.

- 1. Double-click on **Network Connections** on the desktop.
- 2. Right-click Ethernet (connected) and click Properties.



3. Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

This connection uses the following items:



- 4. Click the Use the following IP address: radio button Use the following DNS server addresses: will be selected automatically.
- 5. Enter the IP address, subnet mask, and preferred and alternate DNS server addresses for the local network.
- 6. Click **OK** to close the window, and again for the properties window.

NOTE It must be the same network as the cameras and must not be the same network as the local network. Contact your network administrator for more information.

Local Network

- 7. Right-click on the Ethernet (Network cable unplugged) and click Properties.
- 8. Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

This connection uses the following items:	
Client for Microsoft Networks	^
🗹 🏪 File and Printer Sharing for Microsoft Networks	
🗹 🐙 QoS Packet Scheduler	
Internet Protocol Version 4 (TCP/IPv4)	
Microsoft Network Adapter Multiplexor Protocol	
Microsoft LLDP Protocol Driver	
Internet Protocol Version 6 (TCP/IPv6)	~
<	>
Install Uninstall Propertie	s

- 9. Click the Use the following IP address: radio button Use the following DNS server addresses: will be selected automatically.
- 10. Enter the IP address and subnet mask of the camera network. Leave the default gateway and preferred and alternate DNS server fields blank.
- 11. Click **OK** to close the window, and again for the properties window.
- 12. Connect a network cable to Ethernet port B14 (2.5G LAN) on the rear panel diagram to activate the local network connection.
- 13. Close the network connections window.



NOTE If you are not connecting to the Blackjack^{*} from the same network, you may be required to perform port forwarding on your router to access the server. Contact your Network Administrator or Installer for additional information

CONFIGURE CAMERAS USING DW IP FINDER

Refer to the camera's QSG to configure any DW IP camera's IP address using DW IP finder.

SETTING UP THE DW SPECTRUM MEDIA SERVER

Login: **admin** Password: **admin12345**

STEP 1: Login from the Blackjack' server



- 1. Open the DW Spectrum client. Spect
- 2. Click on the pre-configured server.
- 3. If it does not log in automatically, enter the default password and click Connect.

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				BJAIHDX		
				localhost:7001		
æ	BJAIHDX	E		admin		
Log in to DW Cloud		Connect to Server				
						_
			Log in to DW Cloud	Connect		Connect to Serve

STEP 2: To rename the server

- 1. Right-click on the server name in the resource list on the left side and click Server Settings...
- 2. Enter the new server name in the name field and click **OK**.

Minispott x +	×	0 - ? _ Ø ×	W Server Settings - Server DW-BJAHDX5108T - DW Spectrum Client	×
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A LANCK		3 mathematicas	General Storage Management Storage Analytics Backup	
- El tener DVI-6JAHOKS10	the free free free to	Check out DW Chever 1 to pour System from anywherer cancerners Control (Name Server DW-BJAIHDX5108T	
Web Pages Web Pages Web Pages Web Diverses Web Diverses Web Diverses Web Web Adds	Montor Mantor In New Tab	Automatic cland updates New class only updates will be retained in the	IP Address 192.168.5.165	Ping
	Maxim in New Window Rename F2	settrop. Spislers Settings	Port 7011	
	Add > Canwas Lid by Soviet. Server Lega. Server Sensentitio.		Certificate @ DW Spectrum Autodetect bulk-in and USB webcams	
Local Files	Bever And Page. Bever And Page.		Sailover 🕘	
		E	Max caneras on this server 256 C server Location (0 0 C	
		ISI	Server Location ID: 0 🗘	
			Failover Priority	

STEP 3: To check for updates

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the **Updates** tab. If the system needs to be updated, click on the **Update** button.

New Layout 1 × +	v											
Connect to Another Server	Ctrl+Shift+C											
Disconnect from Server	Ctrl+Shift+D											
New	>											
Open	>	DW System	Administration - DW S	Spectrum Cli	ent							
Start Screen Recording	Alt+R	General	User Management	Updates	Licenses	Email	Security	DW Cloud	Time Sync	Routing	Plugins	Advanc
System Administration	Ctrl+Alt+A	Latest Av									ល្ល៊ែ Adva	
User Management		\bigcirc	The latest ver	sion is	alread	<i>i</i> nsta	alled					
Local Settings		0		5101115	uneauj	, 11310	mea					
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Bookmark Log	Ctrl+B	opdati	e to specific Build	- Check	Again							

* If the latest version is already installed, the message "The latest version is already installed" will be visible at the top.

3. Click **OK** when the update is complete.

Specific Build ∨ ② Advanced settings 6.0 ; X,XXXXXX Televan rotes	Ready to update to 6.0.X.XXXXXX Polyana motes	W DW Spectrum Client ? X
BitEANIO GHARES: Stopper for MonrateR Windows 8.1 and Microsoft Windows Server 2013 is discontinued. Support for MonrateR Windows 8.1 and Microsoft Windows Server 2013 is discontinued. Support for Machine	BREAKING CHANGES: *Support for Microsoft Windows 8.1 and Microsoft Windows Server 2012 is discontinued. *Support for Mapberny 71 aviil be discontinued in the next major release (6.1). *Support for Suppervs 70 aviil be discontinued in the next major release (6.2).	Update completed DW Spectrum Client will be restarted to the updated version.
 Support for adaptory: Us it Uwit and addocramate in the fixet magnifikesis (b.). Deventional ± Ost Lipdate File 	Install update Cancel	ок

STEP 4: Activate licenses

NOTE: An active Internet connection is required.

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the **Licenses** tab. Enter the license key and click **Activate License**.

General	User Management	Updates	Licenses	Email	Security	DW Cloud	Time Sync	Routing	Plugins	Advanced
New Lice	nse									
Internet Act	tivation Manual A									
License	Key RNSC-KOVB	-DGCG-SF0	G				Ç] Paste	Activate	License
	Activate Fre	e License								

* Click Activate Free License to use a free, four-channel license for 30 days.

3. Click **OK** when all necessary license keys are activated.

STEP 5: Configure recording

- 1. Right-click a camera in the resource list on the left side and click Camera Settings...
- 2. Click the **Recording** tab.

≡	New Layout 1 $ imes$	+ ~		DW Camera	Settings - D	VC-MV720	287 - DW :	Spectrum Olie	vt						,
	Search			General											
~	BJAIHDX			Records											
	admin														
				All 15											
	Server DW-BJAIHD			Mon 1											
	DWC-MV72D	- Open		Tue											
	Web Pages	Open in New Ta	sh	Wed											
	Other Systems	Open in New W		Thu											
	DW_Building	Open in New W	indow	Fri											
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	A MYDW-GA0	Delete	Del												
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	MYDW-GB02			~											
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	MYDW-GC01	Check Camera													
Ĺ	Local Files	Camera Rules													
		Camera Setting	S	Mate											
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- 3. Click the **Recording** toggle to activate recording for that camera.
- 4. Set quality, FPS, and recording type.
- 5. Click and drag over the recording schedule to apply the settings to any number of days and times.

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		ecord	ing																					
Reco	rding	Sche	dule																					
	15 Hi	15 Hi	15 Hi	15 H	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi										
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* Click **All** to apply the recording settings to the entire schedule.





6. Click **OK** when the necessary recording schedule is set. A red circle will appear next to the camera in the resource list.



NOTE: A Recording License is required to allow a camera to record to the archive.

STEP 6: Backup database

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the Advanced tab. Click Create Backup...
- 3. Select the location to save the database, and enter a name for the backup file. Click **Save**.

* Creating a database backup to external storage before and after every update is strongly recommended.



NOTE: More information and instructions are available in the DW Spectrum user manual.

SETTING UP THE DW AI SERVER CONFIGURATION TOOL

While some camera settings can be configured through the DW Spectrum Client, the DW Ai Server Configuration Tool can be used to provide a complete analytic user experience during the configuration process of the DW Ai Server.

STEP 1: Logging in with the DW Ai Server Configuration Tool

To begin setting up the DW Ai Server Configuration Tool

 Launch the DW Ai Server Configuration Tool. There is an application shortcut on the desktop. Select the DW Ai Server you want to connect with and log in with the local 'admin' user profile.



NOTE: If connecting the DW Ai Server Configuration Tool to the DW Spectrum Server is hindered by the message "Unauthorized. Please check the access credentials and try again," after changing the user password, enable the Digest Authentication setting of the user profile in the DW Spectrum Client.



2. Once logged in and connected to the DW Ai Server through the DW Ai Server Configuration Tool, a list will show all added cameras in the left-side panel.

To view all cameras, including the cameras without DW Ai server plugin enabled, click "Ai" to view all cameras.



- Search: This search box can be used to filter the camera list based on the entered device name.
- Ai (toggle): The Ai button toggles the camera list between showing all cameras on the DW Spectrum System or just the cameras that have the plug-in enabled. This toggle appears at the top of the camera list beside the search bar. While enabled, the toggle will appear in orange.
- Refresh: This button refreshes the list of cameras from DW Spectrum when it is clicked.
- Device List: A list of DW MEGApix Ai and standard IP devices are listed in the Resource Tree organized by server. While the DWAi toggle is active, only Ai devices will be listed.

Select the Main Menu to display the menu options:

- Disconnect Server: Disconnects the current session with your DW Spectrum Server.
- DW Ai Server List: Displays a list of the DW Ai Server(s) that your DW Spectrum system is configured to use.
- Licenses: Displays a list of the licenses available from the DW Ai Servers.
- Preference: Displays a list of the DW Ai Server Configuration Tool's advanced options.



STEP 2: DW Ai Server Licenses

A license is required to use the analytic features of a DW Ai Server. Licenses can be managed through the DW Ai Server Configuration Tool program.

Select "Licenses" from the Main Menu in the DW Ai Server Configuration Tool to view the licenses.

Active Licenses

The Active Licenses list shows all licenses of the DW Ai Server and how the licenses are currently allocated.

Server			Total Channels	License Key	
		Channels	Channels	License key	
Server #1	DW AI Server			0G09-5409-06PX	

New Licenses

In the New Licenses area of the menu, server tabs (Server #) are created for each DW Ai Server. Select a server tab to view the license activation interface.

• Type Specifies the activation method that will be used for your license activation request.

o Internet Activation: Select to enter the license activation key to add additional DW Ai licenses.

• License Key: Enter the alphanumeric DW Ai license key, then click "Activate" to add a license. An Internet connection is needed for the DW Ai Server to use this feature.

New License	es	
Server #1		
Туре	Internet Activation O Manaual Activation	
License Key	A1B2-C3D4-E5F6 Activate	=
	Close	

- o **Manual Activation:** Select to copy the server's HW GUID and manually add a DW Ai license. This option is intended for use if the DW Ai Server does not have access to the Internet.
 - **HWGUID:** This is the system's unique code. Copy the HWGUID and submit a request for a manual activation code to <u>licenses@digital-watchdog.com</u>. The email should include the server's HWGUID and the license key that you are trying to activate.
 - Copy to clipboard: Copies the HWGUID to the clipboard.
 - License Key: Type or paste the activation code into the space provided, then click "Activate."

New License	<u>'S</u>
Server #1	
Туре	O Internet Activation (Manaual Activation
HWGUID	667662F3AAD8EB02E92AA5FE705D42B872614C3DFF5F63B2466607EB484CC883
License Key	Activate
	Close

STEP 3: Enable Tab - DW Ai Server Plugin

To set up analytics on the DW Ai Server, select a camera from the left-side panel. The Enable tab shows the status of the plug-in for the selected camera. From here, you can check your license status and select the preferred deep-learning feature.

- DW Ai Server Plugin: Toggle to enable/disable the plug-in for the selected camera.
- **Tracker Engine:** Defines the tracking engine that will be used for analytics. The tracker engine will need to 'learn the scene' to determine the background from moving foreground objects. While initially learning the scene, a message will be displayed in the live view, and no objects will be tracked during this time.
 - o **DL Object Tracker:** When selected, the analytic engine will use the GPU to detect, categorize and track objects as they move through the camera's detection areas.
- When set to use Object Tracker, the objects can be classified using either deep learning models or by using properties extracted from an object in a calibrated scene. If the Deep Learning Filter is not used, camera calibration is required to detect the object class.
 - o **DL People Tracker:** When selected, the tracker uses the GPU to detect and track people as they move through the camera's detection areas.
- Apply: Apply changes to the selected camera.

🗮 DW Ai Server Configu	ration Tool	2.10.2		- :: ×
Q Search	⊡ ©	Enable	HS1 DWC-XSBA08Mi Resolution	704 x 480
✓		Rules	DWC-XSBA08Mi {4e1236a5-8142-31f8-ab56-b99904ab0371} Received Frame Rate Processing Frame Rate	10.0 fps 10.0 fps
AL HS3 DWC-MT94Wi36T AL DWC-MT94Wi36T		Counters	DW Ai Server Plugin	License Status
AL DWC-MT94Wi36T AL HS2 DWC-MB94Wi36T		Tamper		
DWC-XPZA03Mi		Advanced		
			Tracker Engine	
			Tracking Engine O DL Object Tracker O DL People Tracker	
			Apply	

NOTE: This products is covered by one or more claims of the HEVC Patents listed at patentlist.accessadvance.com.



TROUBLESHOOTING TIPS

Problem	Possible solutions
A camera or other device is not automatically discovered.	 The device must be on the same local network as the media server. The device must be compatible with DW Spectrum. Refer to the full list of supported cameras on digital-watchdog.com Update the device with the latest firmware. Ensure ONVIF is enabled on the device. Add the camera manually. Reboot the server after installation. Allow up to 2 minutes for the server to detect all supported devices.
Slow video	 The same camera(s) could be accessed by multiple clients simultaneously. Check network speed.
Device appears disconnected	 Ensure the username and password are correct in device settings. Click the ping button in device settings to ensure the camera is connected to the network. Reboot or restore the device to the factory default if its web page is available. Update the device with the latest firmware. The device must be on the same local network as the media server. Ensure ONVIF is enabled on the device. The user may not have the necessary permissions to view that device.
Cannot view archived video	 Ensure there is an active network connection between the client and server. The user may not have the necessary permissions to view archive from that device. The camera may be set to a recording mode that did not record video for the selected time and environment. Check the log on the media server to ensure the device did not unexpectedly disconnect.
"Unauthorized" message on device	 Ensure the username and password are correct in the device's settings. Reboot the camera.

DW SPECTRUM SYSTEM REQUIREMENTS

Recommended specs for the full client

	Minimum	Recommended
Processor	Intel i5 8th gen processor (or higher)	Intel Core i7 8th gen processor (or higher)
System RAM	8GB RAM	16GB RAM
Video card	Integrated Intel graphics	GeForce GTX 1650 or better
Network interface	2 x 1 Gbps	2 x 1 Gbps
OS Drive	256GB HDD	Dedicated 256GB SSD or larger
OS supported	Microsoft Windows OS (supported by both DW Spectrum® Server • Windows 10 • Windows 11 • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 **NOTE: DW Spectrum for Windows can be installed as a software 1 Ubuntu (Debian-based Linux) OS (supported by both DW Spectru • Ubuntu 18.04 LTS "Bionic Beaver" • Ubuntu 20.04 LTS: "Focal Fossa" • Ubuntu 22.04 LTS: "Focal Fossa" • Ubuntu 22.04 LTS: "Jammy Jellyfish" **NOTE: DW Spectrum for Ubuntu is only available for separate inst Macintosh OS (supported only by the DW Spectrum Client. DW Spe • macOS 11.0, 11.1, 11.2 "Big Sur" • macOS 12 "Monterey" • macOS 12 "Monterey" **NOTE: DW Spectrum for macOS is only supported by the DW Spectrum Spectrum for Water Spectrum S	bundle, or the Server and Client software can be installed separately. m Server and Client). callations (not bundled). ectrum Server is not available for macOS).

* Except Storage Server version

Important: OS not listed will be not be supported by DW® Tech Support.

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