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3M™ PELTOR™ WS™ ProTac XPI Bluetooth® Headset Range

Technical Data Sheet

Description

The 3M™ PELTOR™ WS™ ProTac XPI Headset is a next generation Bluetooth® protective communication solution.

With Bluetooth® Multipoint connectivity, the headset can be simultaneously connected to two Bluetooth® enabled devices. The Push-To-Listen (PTL) feature allows users to communicate face-to-face with others in a noisy environment without the need to remove the hearing protection device (HPD) and with the noise-cancelling boom microphone that carries a water and dust-proof IP68 rating, users can have clear, hands-free communication in noisy and harsh environments. The environmental listening technology assists workers to hear environmental sounds in low noise and helps provide protection when it's loud. The bright yellow color provides enhanced visibility.

Applications

The 3M™ PELTOR™ WS ProTac XPI Headset offers Bluetooth® Connectivity and Level-dependent Technology for critical communication in noisy environments. Useful when users need to be connected wirelessly to their mobile device (e.g. process operators, push-back operators at airports, maintenance etc.); everywhere critical communication and hearing protection is required.

Features

- Bluetooth® 4.2 including MultiPoint.
- Bright yellow color for enhanced visibility.
- Noise-cancelling water resistant speech microphone. IP68 rated for use in noisy and demanding environments. Supports VOX.
- Support for Bluetooth® A2DP, streaming (selectable in Setup mode).
- Auto power off: The headset will turn off after 4 hrs of non-use to save battery.
- Low-battery warning at low battery level.
- FLX2 accessory jack (-111 models) for ability to add an additional external source via cable for safe and independent communication.
- Compatible with 3M™ PELTOR™ WS Ground Mec adapter.
- Compatible with 3M™ E-A-Rfit validation system.
- Complies with Australian/New Zealand Standard AS/NZS 1270:2002.

Headband
MT15H7AWS6 / MT15H7AWS6-111

Helmet Attach
MT15H7P3EWS6 /
MT15H7P3EWS6-111

Neckband
MT15H7BWS6-111

Level-dependent function for ambient listening to help improve situational awareness

Noise cancelling boom microphone for clear speech transmission in noisy environments

Bluetooth® Connectivity

Hearing protection for communicating with external two-way radio

Bluetooth® MultiPoint technology for connecting to one or two external devices for hands-free talk and streaming

Standards

This 3M™ PELTOR™ Hearing protector has been tested by an accredited laboratory in accordance with the requirements in AS/NZS 1270 and has met the specifications of hearing protectors Class 5. When selected, used and maintained as specified in AS/NZS 1269, this hearing protector may be used in noise up to 110 dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protector class.

For a copy of the declaration of conformity and any additional information required by the regulations, please contact 3M in the country where the purchase was made.

Quick Reference

	3M™ PELTOR™ WS ProTac XPI Headset				
	Headband MT15H7AWS6	Helmet Attach MT15H7P3EWS6	Headband MT15H7AWS6-111	Neckband MT15H7BWS6-111	Helmet Attach MT15H7P3EWS6-111
Attenuation Data					
SLC80	32dB	27dB	32dB	29dB	27dB
Class	5	5	5	5	5
Tested to	AS/NZS 1270:2002	AS/NZS 1270:2002	AS/NZS 1270:2002	AS/NZS 1270:2002	AS/NZS 1270:2002
Physical Properties					
Clamp Force	12N	9.9N	12N	11.6N	9.9N
Weight (Batteries Included)	372g	396g	372g	357g	396g
Material Listing					
Cup	ABS Plastic				
Headband	PVC, PA, Stainless Steel Wire	N/A	PVC, PA, Stainless Steel Wire	N/A	N/A
Helmet Attachment Arm / Neckband	N/A	Stainless Steel Wire	N/A	Stainless Steel Wire	Stainless Steel Wire
Cable	PE,TPE				
Two-Point Fastener	POM				
Cushion	PVC foil and PUR foam				
Insert (Liner)	PUR foam				
Speech Microphone	ABS,PA				
Specifications					
Wired connectivity	No	No	Yes. FLX2 Connector 6-Pin, Mini XLR	Yes. FLX2 Connector 6-Pin, Mini XLR	Yes. FLX2 Connector 6-Pin, Mini XLR
Microphone/ Type	Noise cancelling microphone, Dynamic 150 Ohm, IP 68 (6m/30min) Sensitivity .-71dB±3dB(0dB=1v/Pa 1KHz) @50CM Frequency response 200Hz~7KHz				
Level Dependent Microphone for Ambient Listening	Yes				
Speakers	100 Ohm +/-15%, SPL 15 +/- 3dB, 100-4000 Hz				
Operating temperature	-20°C/-4°F to 50°C/122°F				
Storage temperature	–20°C (–4°F) to 40°C (104°F), <90% humidity				
Product lifetime	Up to 5 years (excl. batteries)				
Other					
Colour	Bright Yellow				
Hygiene Kit	HY83				
Compatible with 3M™ E-A-Rfit™ Validation System	Yes				
Compatible with 3M™ Versalfo™	N/A	Yes (MT7V/1)	N/A	N/A	Yes (MT7V/1)
Helmet Attachment Backplate	N/A	On Product P3E (30mm)	N/A	N/A	On Product P3E (30mm)

Use limitation: Never modify or alter this product.

Fitting Instructions

Inspect the hearing protector before each use. If damaged, select an undamaged hearing protector or avoid the noisy environment.

When additional personal protective equipment is necessary (e.g. safety glasses, respirators, etc.), select flexible, low profile temples or straps to minimize interference with the earmuff cushion. Remove all other unnecessary articles (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could interfere with the seal of the earmuff cushion and reduce the protection of the earmuff.

Headband Headset

To fit the hearing protector:

1. Slide out the cups and tilt the top of the cup out, as the cable must be on the outside of the headband (Fig 1).
2. Pull the cups apart and place the earmuffs over the ears so that the cushions form a snug seal around the ears.
3. Adjust the height of the cups by sliding them up or down while holding the headband in place (Fig 2).
4. The headband should be positioned across the top of your head (Fig 3).

Neckband Headset

To fit the hearing protector:

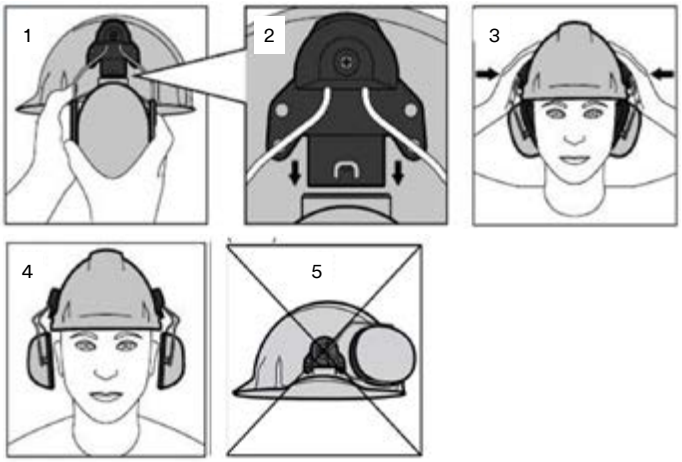
1. Place the cups in position over the ears (Fig 1).
2. Keep the cups in position, place the head strap on top of your head and lock it tight in position (Fig 2).
3. The head strap should be positioned across the top of your head and should support the weight of the headset (Fig 3).

Caution: The neckband earmuffs must be worn with the head strap correctly attached to keep them firmly in position to maintain an effective acoustic seal. The protection level provided by neckband earmuffs may be reduced if the head straps are not worn correctly.

Helmet Attach Headset

To fit the hearing protector:

- **Fit the cup:** Push the attachment blade firmly into the slot on the side of the helmet until it clicks into place (Fig 1 & 2)
- **Working position:** With the cups over the ears press the arms inwards until you hear a click on both sides indicating a firm seal (Fig 3).
- **Stand-by position:** Lift the cups to the fixed stand-by position. In a noisy environment the ear muffs must be worn in the working position at all times (Fig 4).
- **Parking position:** First lift the cups to the stand-by position (Fig 4), then rotate them up to the next fixed position.
- **Ventilation mode:** Avoid placing the cups against the helmet as this prevents ventilation (Fig 5).
- **Storage mode:** When the helmet is not in use, lower the earmuffs and press them inward. Keep the cups clean and dry and store at normal room temperature.



Fit Check

When hearing protectors are correctly worn, your voice should sound hollow and sounds around you should not sound as loud as before.

Hearing Protector Fit Testing the 3M™ E-A-Rfit™ Dual-Ear Validation System

The success of your hearing conservation program requires more than offering earplugs or earmuffs. Each worker needs to wear the most effective hearing protector for the environment and the correct fit for their unique anatomy.

With 3M™ E-A-Rfit™ Dual-Ear Validation System, you can quickly identify how much protection each worker receives from their 3M hearing protectors.

The Technology Behind 3M™ E-A-Rfit™

The 3M™ E-A-Rfit™ Dual-Ear Validation System is based on Field Microphone-In-Real Ear (F-MIRE) technology that measures the effectiveness of hearing protectors from inside a worker's ears, providing accurate, quantitative results.

The tester wears a pair of modified 3M™ probed hearing protectors connected to a dual-element microphone. A loudspeaker is placed in front of the tester. When it emits a broadband noise, the dual-element microphone measures the signal in the ear canal and outside the ear plug. In less than five seconds, the difference between the two measurements is calculated and a Personal Attenuation Rating (PAR) is displayed.

It Starts with PAR

The 3M™ E-A-Rfit™ Validation System puts the worker in the context of their noise environment and helps you understand their level of attenuation.

The results you get from the 3M™ E-A-Rfit™ is displayed as a PAR. The PAR is a numerical value that shows the reduction in sound level within the ear when a hearing protector is worn. The resulting PAR, combined with the worker's exposure to noise, is used to determine if a worker is receiving appropriate protection from the noise hazard.

Knowing the PAR lets you identify workers who are inadequately protected, so you can provide real-time intervention and training.

Key Benefits of the 3M™ E-A-Rfit™ Dual-Ear Validation System include:

- Tests both ears simultaneously in less than 5 seconds
- Science-based, quantitative testing
- Fast, clear, and accurate results
- Tests 7 frequencies 125Hz to 8000Hz
- 3M™ Earplug, earmuff and headset (comms) testing capability

Contact your 3M Personal Safety Specialist to find out more about our 3M™ E-A-Rfit™ Dual-Ear Validation System or for assistance in solving your complex or day-to-day hearing conservation challenges

Attenuation Data

3M™ PELTOR™ WS™ ProTac XPI Headset, Headband MT15H7AWS6, MT15H7AWS6-111 **AS/NZS 1270:2002**

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC_{80}	Class	Clamp Force
Mean Attenuation (dB)	19.6	23.2	32.9	36.8	36.6	35.0	37.5	32dB	5	12 N
Standard Deviation (SD) (dB)	2.3	2.5	3.2	3.0	3.0	4.0	2.6			
Means minus SD (dB)	17.3	20.7	29.7	33.8	33.6	31.0	34.9			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

3M™ PELTOR™ WS™ ProTac XPI Headset, Neckband MT15H7BWS6-111 **AS/NZS 1270:2002**

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC_{80}	Class	Clamp Force
Mean Attenuation (dB)	16.0	19.8	27.5	32.7	36.4	33.3	36.1	29dB	5	11.6 N
Standard Deviation (SD) (dB)	3.8	3.8	4.0	3.0	3.6	4.0	3.8			
Means minus SD (dB)	12.2	16.0	23.5	29.7	32.8	29.3	32.3			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

3M™ PELTOR™ WS™ ProTac XPI Headset, Helmet Attach MT15H7P3EWS6, MT15H7P3EWS6-111* **AS/NZS 1270:2002**

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC_{80}	Class	Clamp Force
Mean Attenuation (dB)	16.7	18.2	26.4	32.3	35.6	32.1	34.8	27dB	5	9.9 N
Standard Deviation (SD) (dB)	4.0	4.4	5.2	3.3	4.3	3.5	5.3			
Means minus SD (dB)	12.7	13.8	21.2	29.0	31.3	28.6	29.5			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

* These earmuffs were tested in combination with the HC600 industrial safety helmet using the P3G adapter and may give different levels of protection if fitted to different helmets.

Key

Mean = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002.
SD = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002.
Mean-SD = Mean attenuation value minus Standard Deviation
SLC_{80} = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC80 in 80% of protector-wearer noise spectrum combinations.
Class = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

The effectiveness of a hearing protector reduces dramatically when the hearing protector does not fit properly, is incorrectly inserted or is not worn 100% of the time during ALL hazardous noise events. Removal of the hearing protector, even for brief moments, substantially reduces protection and greatly increases the risk of hearing damage.

Cleaning and Maintenance

Follow recommended care and cleaning instructions in order to maintain best noise reduction and function.

Cleaning

- Carry out a visual battery condition check. Replace if battery leakage or defects are detected.
- Use a cloth wetted with soap and warm water to clean the outer shells, headband and ear cushions.

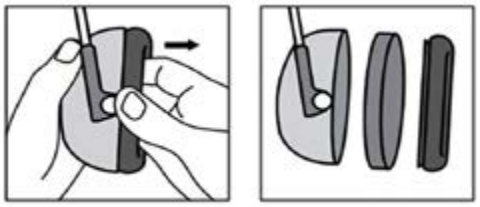
NOTE: Do NOT immerse the hearing protector in water.

If the hearing protector gets wet from rain or sweat, turn the earmuffs outwards, remove the ear cushions and foam liners, and allow to dry before reassembly. The ear cushions and foam liners may deteriorate with use and should be examined at regular intervals for cracking or other damage. When used regularly, 3M recommends replacing the foam liners and ear cushions at least twice a year to maintain consistent attenuation, hygiene, and comfort. In hot and humid environments more frequent changes may be required to maintain acceptable hygiene. If an ear cushion is damaged, it should be replaced.

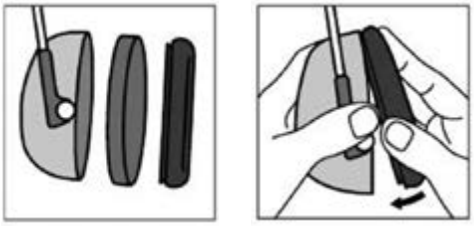
Maintenance - Changing the Hygiene Kit

Cushions and inserts can be replaced by using the approved Hygiene Kits for your 3M™ PELTOR™ Product. See 'Ordering Information' section.

1. Remove the cushions and inserts as shown.



2. Replace the worn or damaged cushions and insert with the new pair from the appropriate hygiene kit.



- 3M™ PELTOR™ HY100A Clean Hygiene Pads can be applied onto the earmuff cushions to help absorb sweat and moisture for improved comfort and hygiene.

Storage

- Store the product in a clean and dry area before and after use.
- Remove batteries before storing the product for extended periods
- Always store the product in the original packaging and away from any sources of direct heat or sunlight, dust and damaging chemicals.
- Storage temperature range:–20°C (–4°F) to 40°C (104°F)
- Relative humidity: <90%.
- For headband versions: make sure that no force is applied to the headband and that the cushions are not compressed.
- Helmet attachment version: ensure the earmuffs are in the storage position and that the cushions are not compressed.

Disposal

If the product is to be disposed*, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations

*Discard the product within 5 years from date of manufacture or immediately if damaged or cannot be cleaned.

Australia: Customers must refer to their Local Council Municipal area for disposal of electronics at their end of life.

New Zealand: Customers must dispose of electronics at their end of life in their local e-waste disposal bins.

Ordering Information

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
Headsets					
7100196045	UU010123527	•	•	MT15H7AWS6	3M™ PELTOR™ WS™ ProTac XPI Headset Headband, MT15H7AWS6, SLC_{80} 32dB (Class 5), 1 Each
7100195960	UU010123535	•	•	MT15H7P3EWS6	3M™ PELTOR™ WS™ ProTac XPI Headset Helmet Mounted, MT15H7P3EWS6, SLC_{80} 27dB (Class 5), 1 Each
7100195906	UU010123543	•	•	MT15H7AWS6-111	3M™ PELTOR™ WS™ ProTac XPI FLX2 Headset Headband, MT15H7AWS6-111, SLC_{80} 32dB (Class 5), 1 Each
7100195976	UU010123568	•	•	MT15H7BWS6-111	3M™ PELTOR™ WS™ ProTac XPI FLX2 Headset Neckband, MT15H7BWS6-111, SLC_{80} 29dB (Class 5), 1 Each
7100195961	UU010123550	•	•	MT15H7P3EWS6-111	3M™ PELTOR™ WS™ ProTac XPI FLX2 Headset Helmet Mounted, MT15H7P3EWS6-111, SLC_{80} 27dB (Class 5), 1 Each
Accessories - FLX2 Cables: -111					
7100197719	UU010126348	•		FLX2-111	3M™ PELTOR™ FLX2 Cable FLX2-111, Hytera PD7 Series, 1 Each
7100197556	UU010124293	•	•	FLX2-35	3M™ PELTOR™ FLX2 Cable FLX2-35, Icom 2-Pin Angled, 1 Each
7100197565	UU010124301	•		FLX2-44	3M™ PELTOR™ FLX2 Cable FLX2-44, Icom Multipin S8, 1 Each
7100197568	UU010126330	•	•	FLX2-64	3M™ PELTOR™ FLX2 Cable FLX2-64, Icom F34/F44, 1 Each
7100193170	UU010054110	•	•	FLX2-36	3M™ PELTOR™ FLX2 Cable FLX2-36, Kenwood 2-Pin, 1 Each
7100185797	UU009731132	•		FLX2-107	3M™ PELTOR™ FLX2 Cable Kenwood Multipin, FLX2-107, 1 Each
7100197566	UU010126314	•		FLX2-18	3M™ PELTOR™ FLX2 Cable FLX2-18, Motorola XTS Series, 1 Each
7100193228	UU009898113	•	•	FLX2-21	3M™ PELTOR™ FLX2 Cable FLX2-21, Motorola CP200/2-Pin, 1 Each
7100193227	UU009879477	•	•	FLX2-32	3M™ PELTOR™ FLX2 Cable FLX2-32, Motorola HT Series, 1 Each
7100185795	UU009731124	•	•	FLX2-63	3M™ PELTOR™ FLX2 Cable Motorola DP4000, FLX2-63, 1 Each
7100197572	UU010126322	•	•	FLX2-65	3M™ PELTOR™ FLX2 Cable FLX2-65, Motorola ex500/ex600, 1 Each
7100220865	UU010902672	•	•	FLX2-69	3M™ PELTOR™ FLX2 Cable FLX2-69, for Motorola M9 Plug, 1 Each
7100197718	UU010123584	•		FLX2-101	3M™ PELTOR™ FLX2 Cable FLX2-101, Sepura 800/900 Series, 1 Each
7100193229	UU009898071	•	•	FLX2-28	3M™ PELTOR™ FLX2 Cable FLX2-28, Mobile/DECT Phone, 1 Each
7100331614	UU013051055	•	•	FLX2-114	3M™ PELTOR™ FLX2 Cable to Motorola R7 FLX2-114, Fits -111 Headsets, 1 Each
7100329802	UU013035025	•	•	FLX2-115	3M™ PELTOR™ FLX2 Cable to Tait TP3 TP8 and TP9 Series FLX2-115, Fits -111 Headsets, 1 Each
Accessories - Ground Mechanic Adaptor					
7100325526		•	•	FL61007-WS7	3M™ PELTOR™ WS Adapter G3, Ground Mechanic
Accessories - Helmet Adaptors/Backplates					
7100383325	UU010853503	•	•	Z3GS/2 (25mm)	3M™ PELTOR™ Helmet Adapters for 3M Scott Safety Visor Z3GS/2 (25mm)
7100383334	XL001642484	•	•	Z3G/2 (25mm)	3M™ PELTOR™ Helmet Adapters for 3M Visor Range Z3G/2 (25mm)
7000103752	XA007702625	•	•	Z3AF/2	3M™ Versaflo™ Back Plate Kit, Left and Right, Helmet Adapter for M-300

Accessories - Hygiene					
7100113964	UU008197921	•	•	HY83	3M™ PELTOR™ Hygiene Kit HY83, 1 Kit/Bag, 10 Bags/Case
7100064410	XH001651351	•	•	HY100A	3M™ PELTOR™ Clean Hygiene Pads HY100A, 100 Pairs/Carton
7100064607	XH001655360	•		FP9007	3M™ PELTOR™ Padded Headset Bag FP9007, Black
Accessories - Microphone					
7100112094	UU008163634	•	•	MT73/1	3M™ PELTOR™ Water Resistant Standard Boom Microphone MT73/1, 1 Each
7100099097	UU008014308	•	•	MT7V/1	3M™ PELTOR™ Microphones for 3M™ Versaflo™ M-300 Helmets MT7V/1, 1 Each
7100112112	UU008159483	•		M171/2	3M™ Peltor™ Wind Protector, M171/2, 1 Each
7100379897		•	•	MT9-02	3M™ MT9-02 THROAT MIC DYNAMIC J22 350MM
7000039650	XH001652532	•	•	M60/2	3M™ PELTOR™ Cup Mic Windsock M60/2, 1 Each Carton
7100064281	AT010580697 (AU) XH001651328 (NZ)	•	•	HYM1000	3M™ PELTOR™ Hygiene Tape for Microphone, HYM1000, 4.5 M, 1 Each
Accessories - Power					
7100075338		•	•	ACK053	3M™ PELTOR™ ACK053 Rechargeable NiMH battery, 2100mAH, 1 Each
7100075611		•	•	FR09	3M™ PELTOR™ FR09 Power supply charging cable with USB connector, 1 Each
7000108521	XH001680194	•	•	FR08	3M™ PELTOR™ FR08 5V DC Power Supply with USB connector, 1 Each
3M™ E-A-Rfit™ Dual-Ear Validation System - Probe					
7100062126	70071691110	•	•	393-3001-2	3M™ PELTOR™ X1/X2 Earmuff Probed Test Cushions B, 393-3001-2, 2 ea/Kit

In the box

- 1 x Hearing Protector
- 2 x AA batteries (non re-chargeable)
- 1 x User instruction

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

Warning

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor or User Instructions.

Always ensure the hearing protection device (HPD) is:

- Suitable for the application;
- Fitted correctly;
- Worn during all periods of exposure;
- Replaced when necessary.

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