Oxford NANOPORE Technologies

High-throughput, real-time, and on-demand sequencing for your lab

GridION

“[With the GridION] we can have more than one flow cell starting at a different time, running different samples, running the same sample and don’t forget you can multiplex on them as well.”

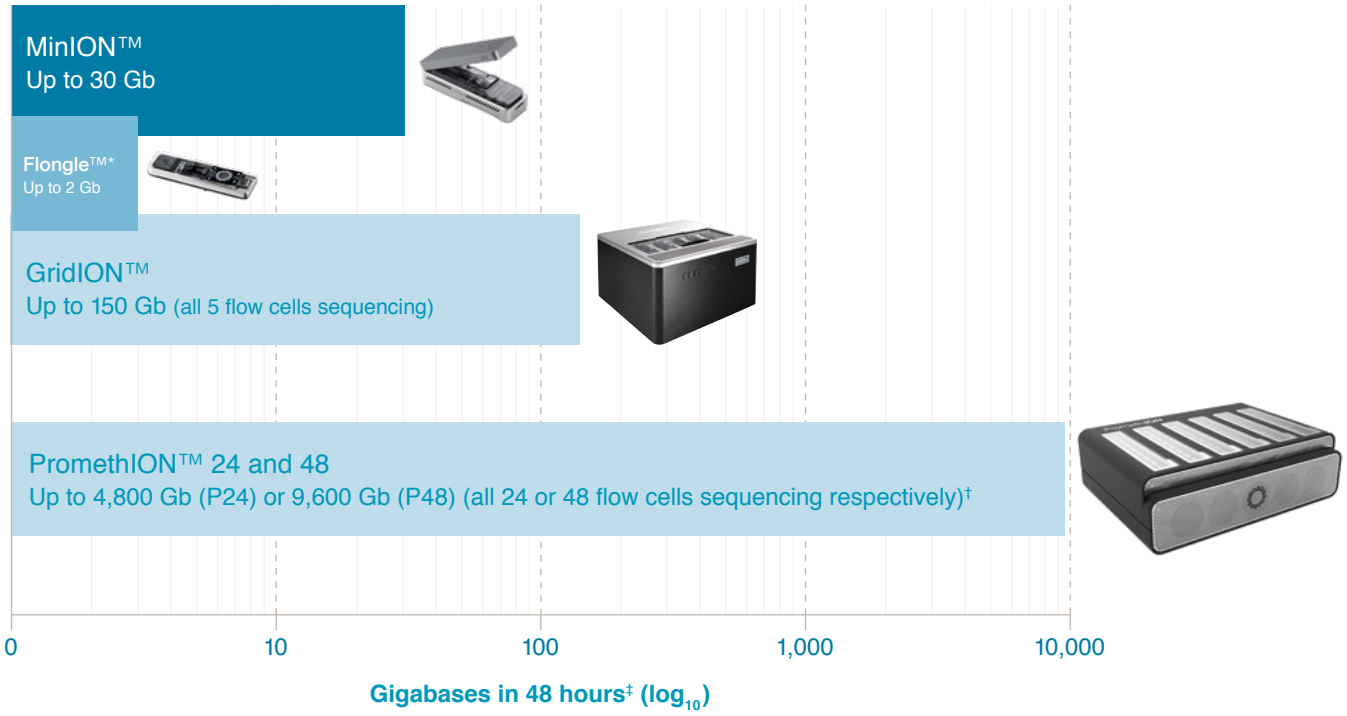
Dr. Kim Judge, Wellcome Sanger Institute

“The GridION Mk1 from @nanopore is a breeze to install. It’s about as plug and play as you can get with a piece of technology this advanced.”

James Ferguson, Garvan Institute of Medical Research

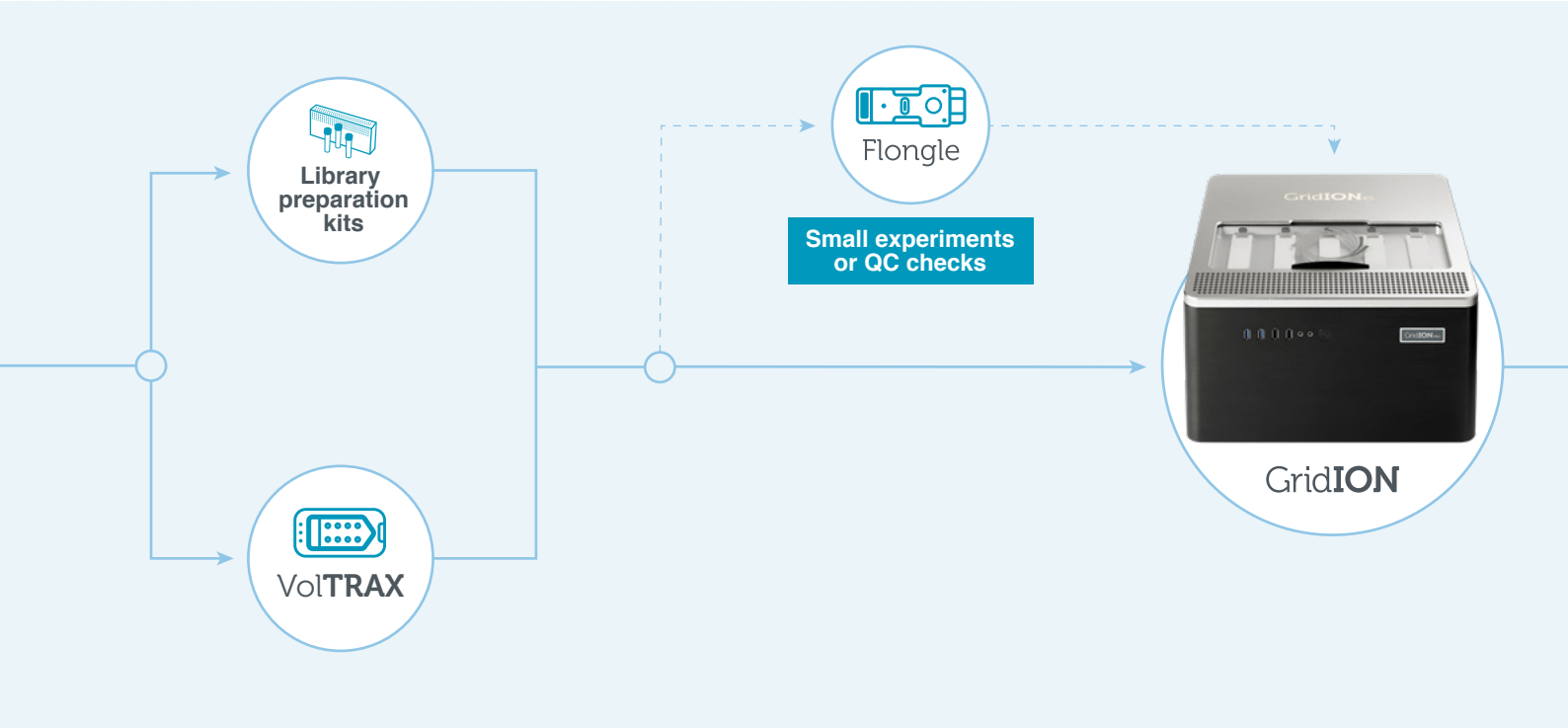
GridION is a cost-effective and compact benchtop system offering on-demand sequencing with integrated real-time data processing

With the capacity to run five flow cells either concurrently or individually, GridION provides busy labs and service providers with cost-efficient access to the advantages of long-read, real-time nanopore sequencing. Integrated, high-performance data processing alleviates the need for complex IT infrastructure.



* Flongle is a flow cell adapter for MinION and GridION, designed for rapid and cost-effective analysis of smaller tests and samples.
† Based on current, internal flow cell performance (theoretical performance of up to 15 Tb).
‡ Devices may be run for longer. 48 hours used for comparison purposes only.

Streamlined sample prep, on-demand sequencing, and



Prepare

- Streamlined library preps — in as little as 10 minutes, with multiplexing options
- Scale according to your needs — same chemistry and kits used for Flongle, MinION, GridION, and PromethION
- Run smaller sequencing tests and experiments or cost-effectively check your sample quality using Flongle on GridION

Sequence

- Sequence what you need, when you need it — no sample batching required
- Control each individual flow cell independently — run as many or as few as you wish at the same time, or add more whilst others are running
- GridION sequences DNA and RNA directly — meaning no amplification bias and retained modification information

real-time analysis for rapid access to insightful results

	Bioinformatic capability needed:	
EPI2ME™	● ○ ○ ○	Use cloud-based or local EPI2ME platform for real-time analysis workflows. **nanoporetech.com/analyse**
EPI2ME Labs	● ● ○ ○	Explore your data and develop your bioinformatics skills with interactive, best practice workflows and tutorials. **nanoporetech.com/analyse**
Community-developed tools	● ● ● ○	Run open-source tools written and developed by the Nanopore Community. **community.nanoporetech.com**
Custom analysis pipelines	● ● ● ●	All the data, raw or basecalled, can be used in custom analysis pipelines written by the user for specific applications.

More information nanoporetech.com/products

Analyse

- High-performance data processing capability with integrated basecall accelerator delivers real-time local analysis with no burden on existing IT infrastructure
- Discover EPI2ME and EPI2ME Labs for streamlined, best practice analysis pipelines and tutorials
- Choose to output the raw signal, or basecalled .fastq files, so you can use your own custom analysis pipelines

Applications include:

- Flexible sequencing of whole genomes, targeted regions, and full-length RNA transcripts — all on one device
- Long reads enhance analysis of repetitive regions, structural variation, phasing, metagenomics, and more
- Quantify and characterise RNA splice variants, isoforms, and fusion transcripts

More information nanoporetech.com/applications

GridION x5
GridION x5

Flow Cell
MinION
GridION
Flow Cell
MinION
GridION

Oxford Nanopore Kits
Oxford Nanopore Kits
Oxford Nanopore Kits

Choose your GridION Mk1 plan

	Starter Pack	CapEx*
GridION Mk1 device	1	1
Flow cells	60	-
Sequencing kits	10	-
Wash kits	5	-
Software licence and device warranty†	12 months	12 months
Remote Installation Assurance‡	Included	Included
* Device purchase. † Extended warranties available. ‡ A wide range of training and support services are available, visit store.nanoporetech.com/services for more information.	[redacted]	[redacted]

Buy now store.nanoporetech.com

NANOPORE Service Certified

Service provider certification is also available for the GridION.

Supporting your research at every step

All GridION purchase plans include Remote Installation Assurance and expert support as standard — enabling easy device setup and complete optimisation of all your nanopore sequencing projects. Our technical specialists are available to answer all your questions on nanopore technology.

Remote Installation Assurance

- Remote walk-through and an overview of nanopore sequencing with Q&A
- Remote installation and configuration assistance
- Remote platform QC check

Expert support

- Access to Nanopore Community support features
- End-to-end online protocol builder
- Customer Services initial setup call
- Technical Support experimental setup call
- Live online chat with Technical Support
- Facility to book Technical Support sessions as required

Training options to suit your laboratory's needs

	Rapid Start Day Training	Advanced Nanopore Training
Location*	Oxford Nanopore labs, your site, or online	Oxford Nanopore labs, your site, or online
Duration	1 day	2 days
Participants	Private session with up to 2 participants	Private session with up to 4 participants
Content	Bespoke to suit your needs	Bespoke to suit your needs
User-provided samples processed	1 sample	Multiple samples
Flow cells included	2	6
Kits included	1–2†	2
Data analysis	Basic	Advanced
	[redacted]	[redacted]

* Third party reagents are provided only when training at Oxford Nanopore labs.
† Depending on application.

Nanopore Workshops

Choose the Nanopore Introduction Workshop and/or Data Analysis Overview to learn the essentials of nanopore sequencing and data analysis — from $750 per person.

More information store.nanoporetech.com/services

Simple plug-and-play setup

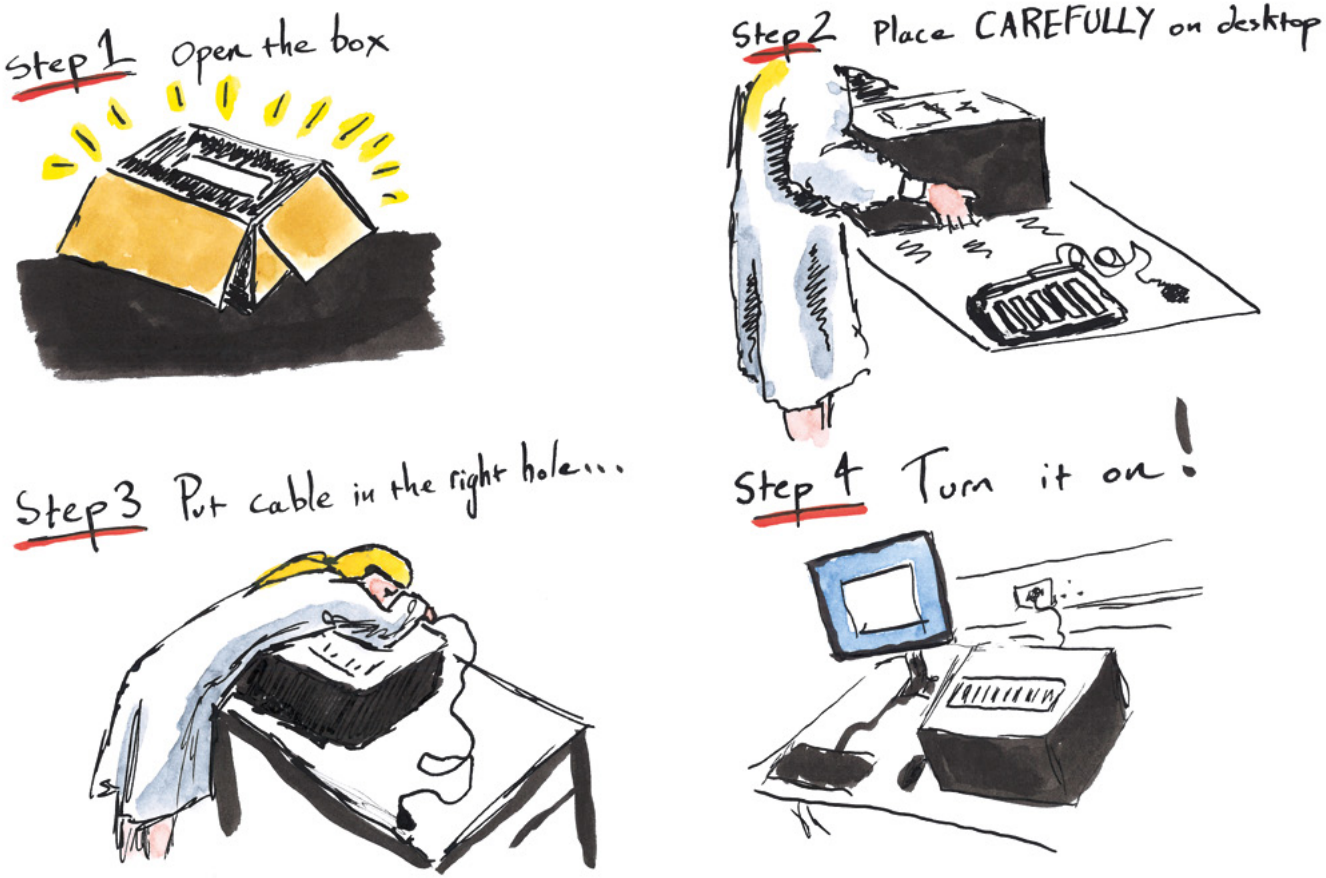


Image courtesy of
Dr. Alex Cagan
Wellcome Sanger Institute

Product specifications

GridION Mk1*

- Up to 5 individually addressable flow cells
- 1 min – 72 hour run time
- As much as 150 Gb total yield across the device
- 2,560 channels across the device can be sequencing at once
- GPU-based compute enabling real-time basecalling alongside additional analysis provided by EPI2ME, EPI2ME Labs, or a wide range of community-developed tools

Power requirements: 650 W

Storage: 4 TB SSD

Memory: 64 GB RAM

Weight: 11 kg

Dimensions: W 370 mm, H 220 mm, D 365 mm

GridION Flow Cells

Same flow cells as MinION device.

- 1 min – 72 hour run time
- Up to 30 Gb per flow cell (theoretical maximum up to 50 Gb)
- 512 channels

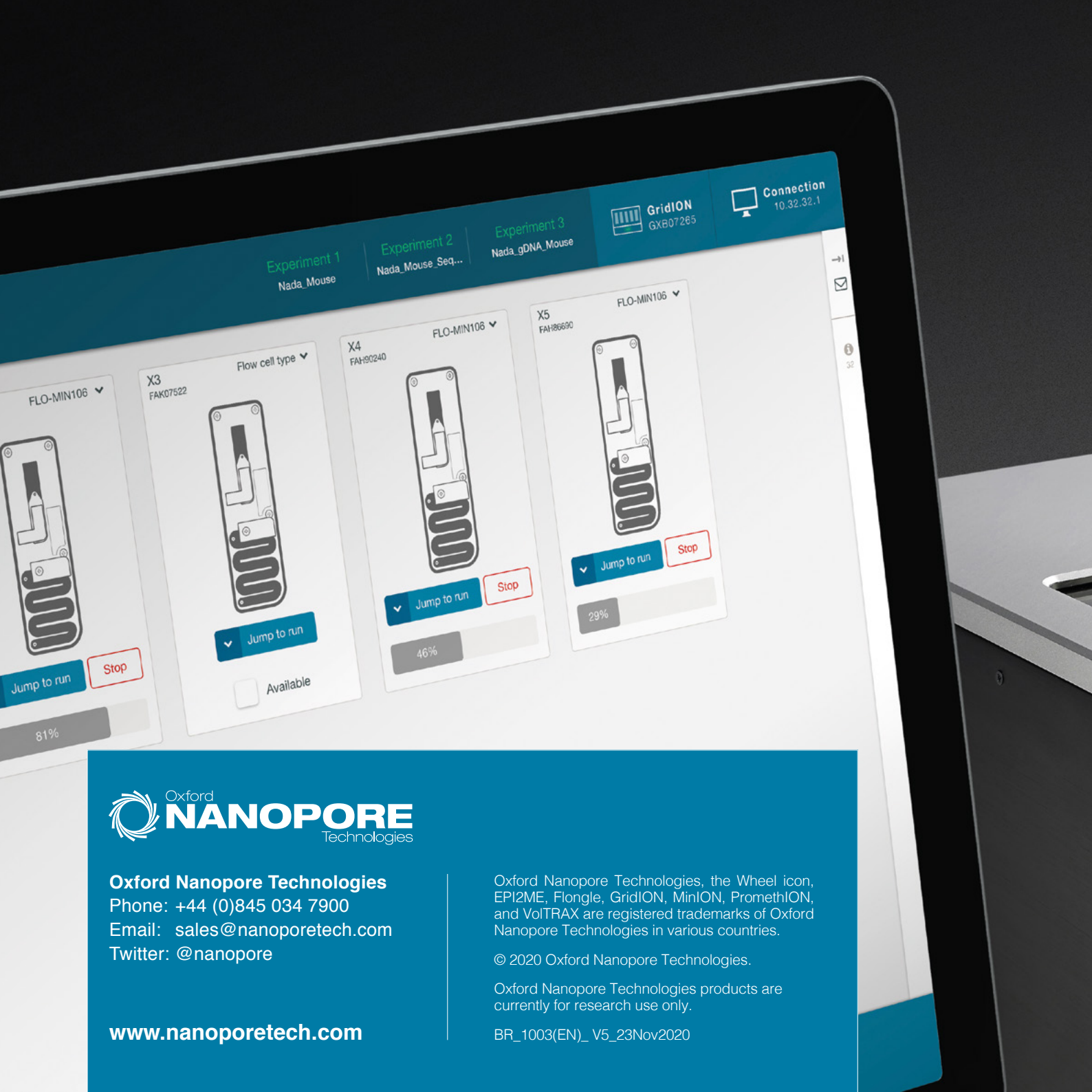
Flongle

MinION/GridION flow cell adapter for more cost-effective sequencing of smaller tests and experiments.

- Up to 24 hour run time
- Up to 2 Gb (theoretical maximum up to 3.3 Gb)
- 126 channels

* Standard computer monitor, keyboard and mouse required.

Buy now store.nanoporetech.com



Oxford NANOPORE Technologies

Oxford Nanopore Technologies
Phone: +44 (0)845 034 7900
Email: sales@nanoporetech.com
Twitter: @nanopore

www.nanoporetech.com

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