Smarter technology for all

Empowering Companies with sustainable AI Edge Computing Solutions

Lenovo brings AI to your Data

Oktober 24th, 2024 Christian Vinkel – ISG Sales Executive

Global sourcing with local manufacturing & delivery



Tianjin

Hefei

Kunshan

Shanghai

Yonezawa

Shimane

Yokohama

Jiaxing

Taipei

Shenzhen



Beijing

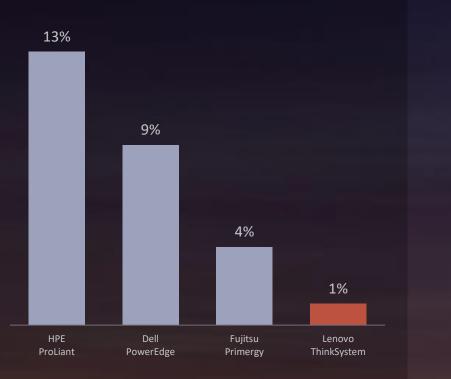
Wuhan

Huizhou

Hong Kong

ISG Server Leadership

Unplanned Downtime > 4 Hours



Security Attacks 26% 17% 4% 2% Dell Fujitsu HPE Lenovo PowerEdge Primergy Superdome ThinkSysten

Lowest Downtime % from

590 **Current World Record Workloads**

>6x as many #1 Results

#1

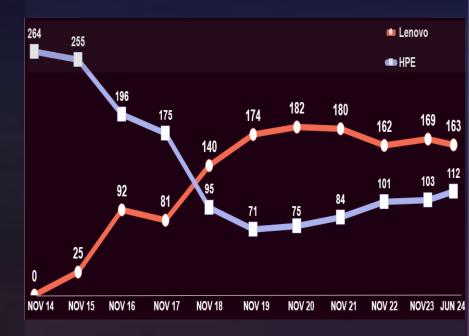
x86 Server Reliability for **10 Consecutive Years**

Lenovo

#1

x86 Security for **5** Consecutive Years #1

Current World Record Performance Workloads



Top 500 Supercomputers for 6 Consecutive Years

#1

Source: ITIC (Mar 2024), Benchmark Report (September 2024) & Top500.org (June 2024)

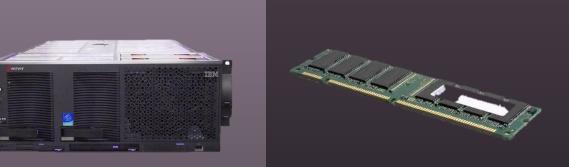
1992 1st x86 Server **IBM PC Server** 1999

1st 1U Tier 1 Rack Server 1st Light Path Diagnostics 2002

1st Scalable 16-socket X86 server



1st high availability hotswap memory



30 years of Server innovation

2019 IoT Edge Server

2018

Thermal Transfer Module





2017

Front/Rear access to all server components

Flexible I/O





1st Mission-critical 8 way server in 4u form factor



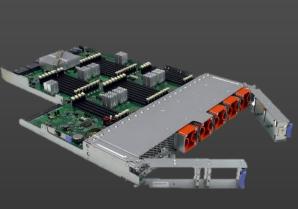


2007

1st to decouple memory from processor

2010

1st x86 server to break 1M tpmC





A history dedicated to continuous increases on performance, agility, and reliability



1st integrated memory channel flash storage

1st 45 °C operating servers



2012

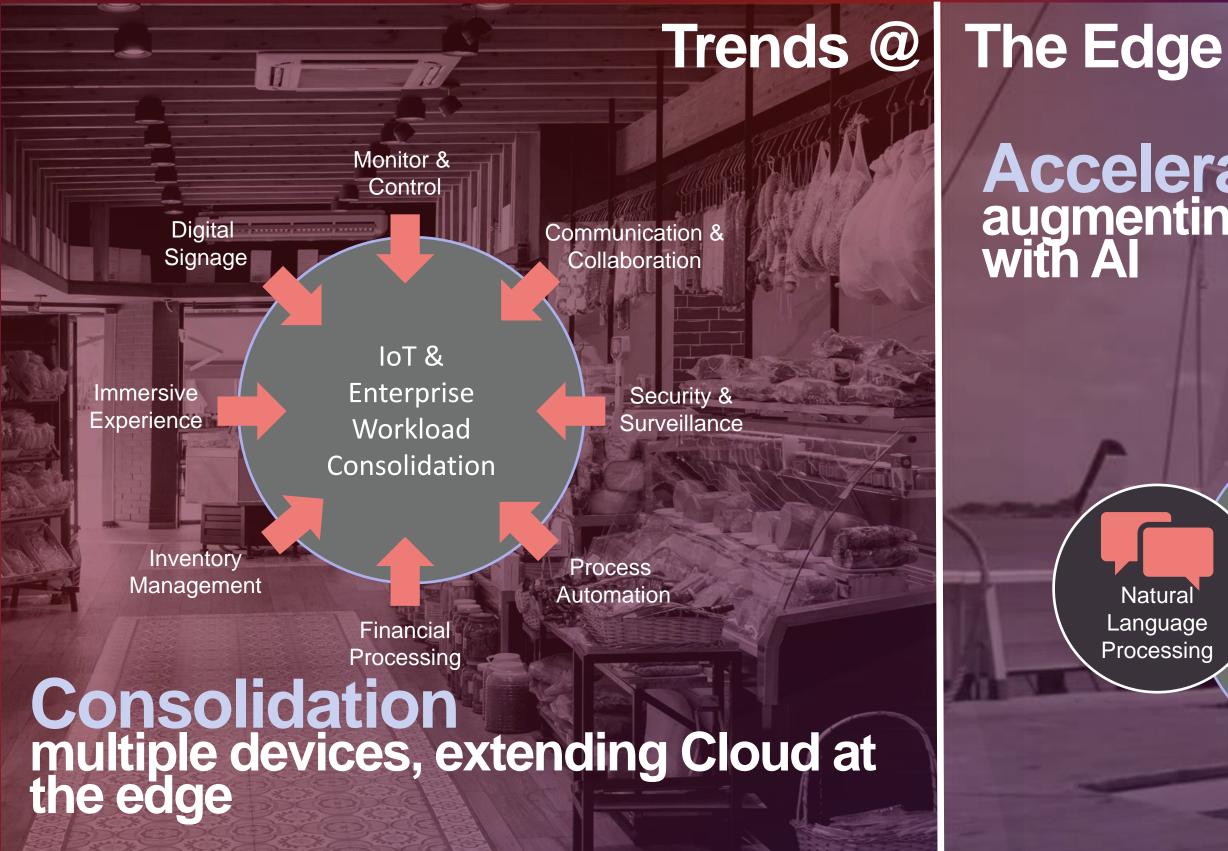
1st warm water cooling technology



⇒Neptune[™]



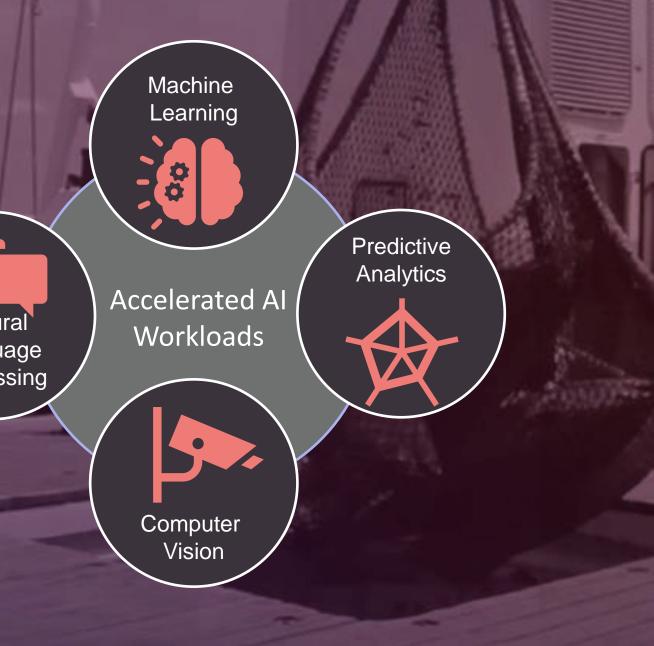








Acceleration augmenting performance with Al



The Edge has unique requirements



Environmental

- Wide temperature \checkmark
- Shock & vibe \checkmark
- Dust filtering & fan-less \checkmark
- Low acoustic \checkmark

Security

- Encrypted data \checkmark
- On-site authentication \checkmark
- Movement & \checkmark tamper detection
- **Physical Security** \checkmark

Flexibility

- Mounting options (VES, \checkmark Rackmount, Standalone)
- Networking options \checkmark
- Diverse workloads
- Multiple protocols

Management

- Single tool for DC & edge Automate deployment Lifecycle Management

- \checkmark

 \checkmark

 \checkmark



Sustainability

Power savings (telemetry \checkmark / cooling) Recycled composite \checkmark material Packaging and refurbish \checkmark

From Far Edge to Core

Edge Client

Edge Server



Gateways

Diverse Portfolio

From ultra compact gateways to data center grade products.

Base Station / DC Closet

Highest Performance

CPU & GPU rich systems for ultimate performance. In harsh environments with ruggedized devices & unique cooling capabilities.







SR630, SR645



EPYC

0°C to 35°C

Data Center

Flexible Deployment

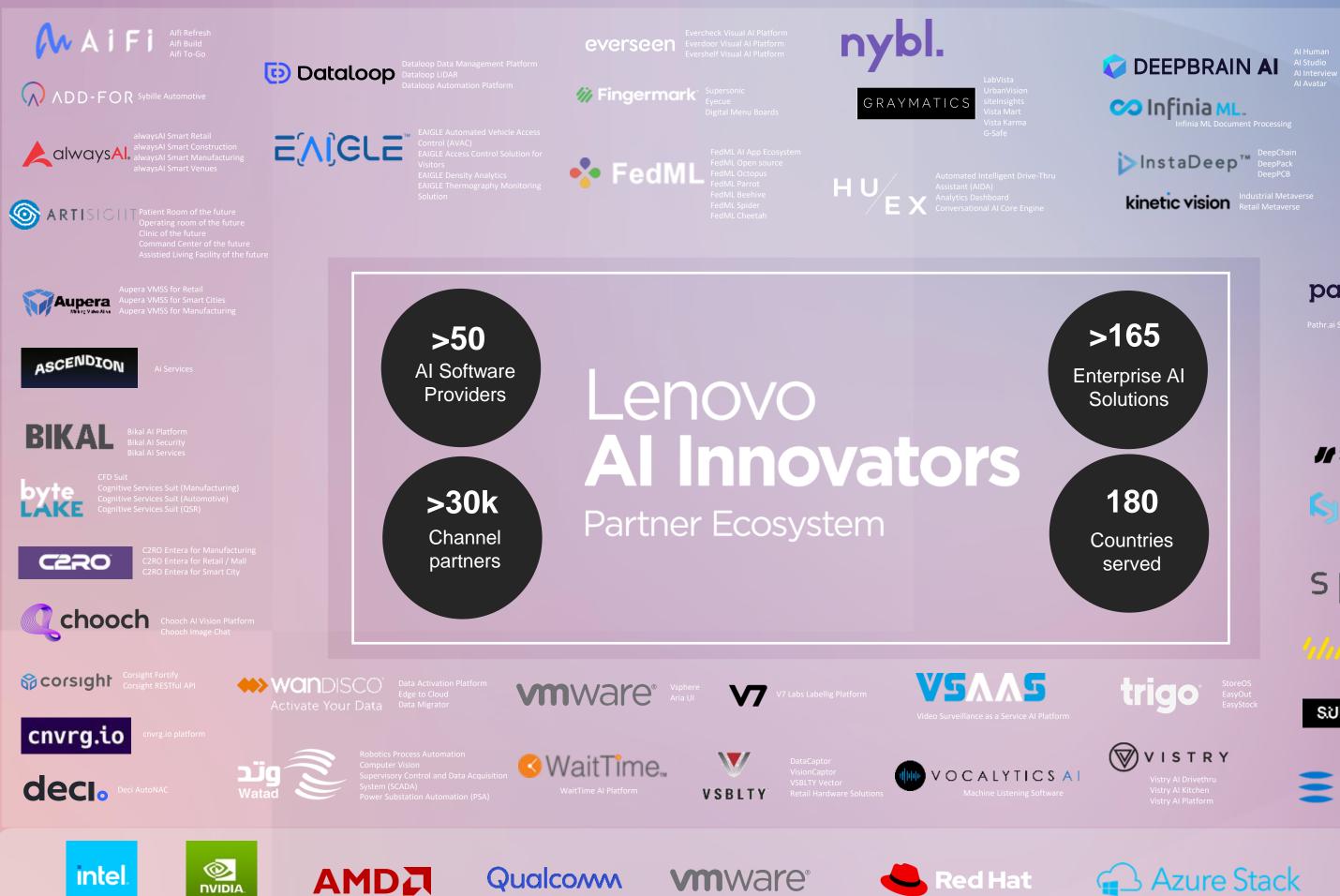
SE455 V3

EPYC

5°C to 55°C

AMD Genoa

Up to 512GB RAM







IBM Maximo Pred Remote Monitori BM Maximo



(NR) NEUREALITY NR1 NAPU NR1 M NR1 S

pathr.





Customer Intelligence 360 AS Visual Forecasting

JI Signatrix Signatrix Instore Analytics Signatrix Loss Prevention



Smartia MAIO Smartia Energy Smartia Predictive Smartia Services



Deming ROVR Deming RANGR Deming OVSERVR HoverTouch Platford

StorMagic

ight hyperConverged Edge ight NexCenter ght NexVisor

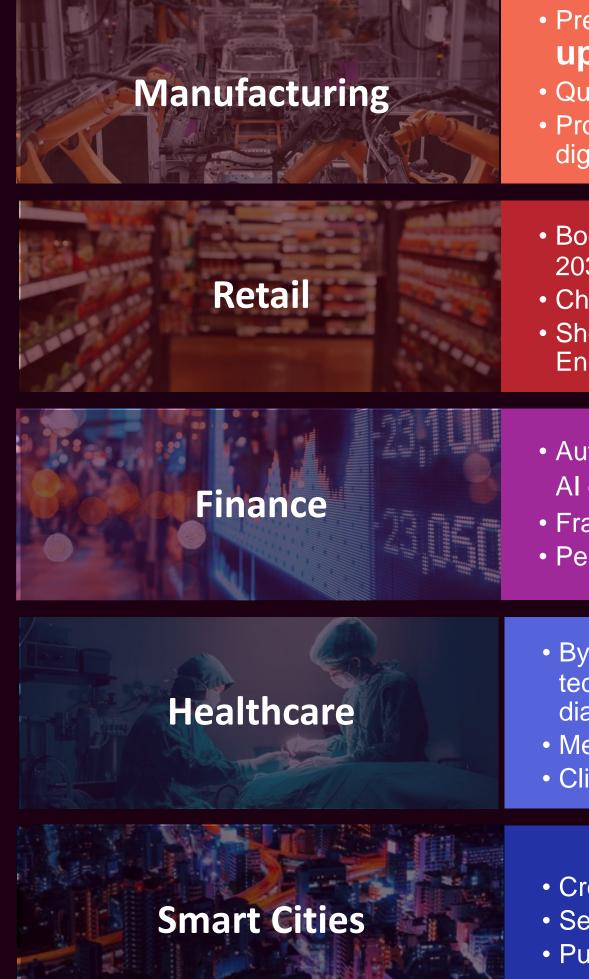


SUNLIGHT



O IBM Watson Studio

A new wave of Al innovation drives competitive advantage for businesses across many vertical markets.





 Predictive Maintenance reducing downtime by up to 40%

Quality Control / Visual Inspection
Production line, robotics & process optimization, digital twins

• Boost retail productivity by as much as **+59%** by 2035.

Check-out automation / loss prevention
Shopping recommendation / Customer Engagement

Automobile lending companies in the U.S. bringing AI on board cut losses by 23% annually
Fraud Detection & Threat Intelligence
Personalized banking/customer service

• By 2025, 90% of hospitals will adopt AI-driven technology for remote patient monitoring and early diagnostics.

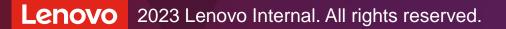
Medical Imaging/diagnosis treatment

Clinical Decision Support (CDS)

Crowd Management, Parking systems
Security and Access Management
Public Safety, Traffic Management

Think Edge

Use Cases





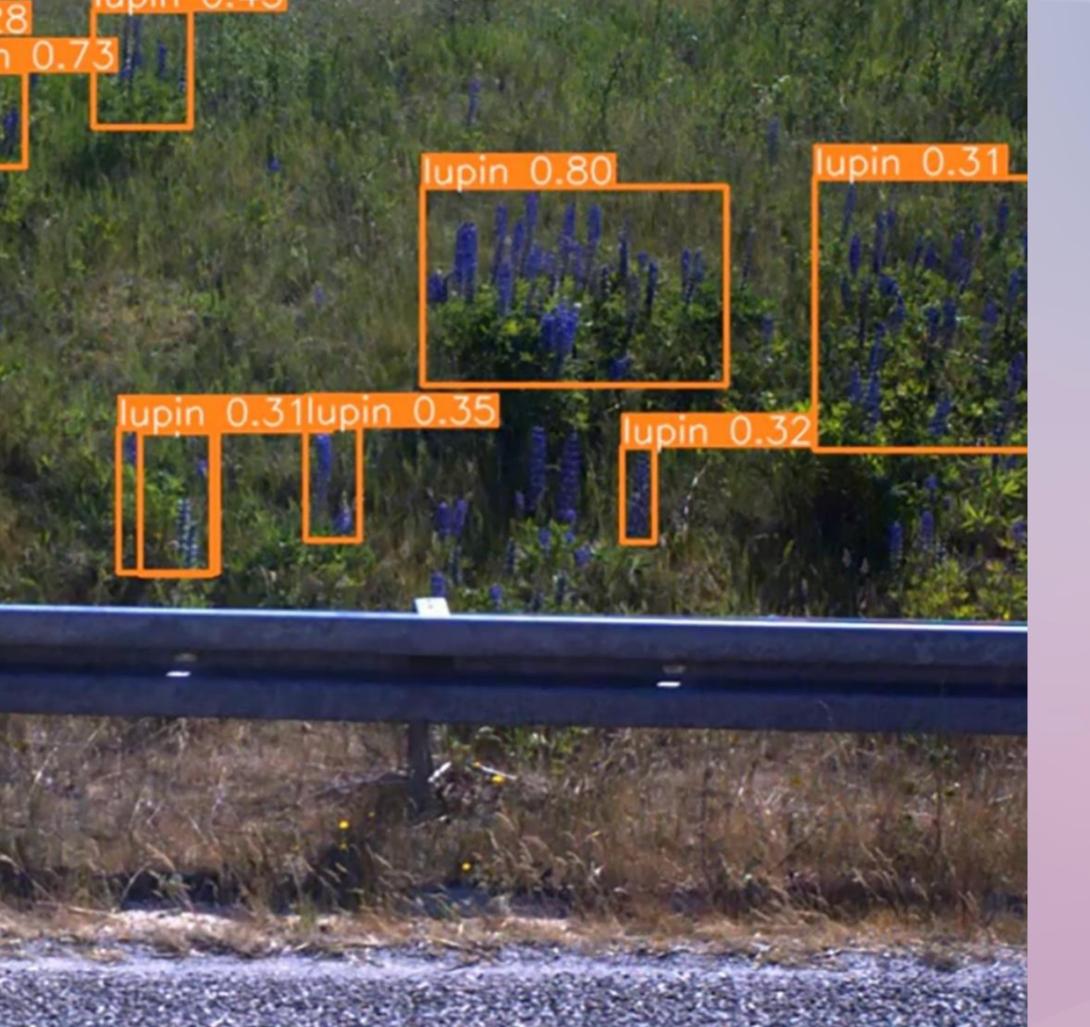
Lenovo TRIFORK.

Protecting biodiversity by monitoring the spread of invasive species

With Lenovo ThinkEdge SE70, powered by NVIDIA Jetson platform, Trifork developed an AI application to identify invasive plant species, enabling the Nordic Road Directorate to take measures to protect native ecosystems.

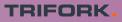
In collaboration with 📀 NVIDIA





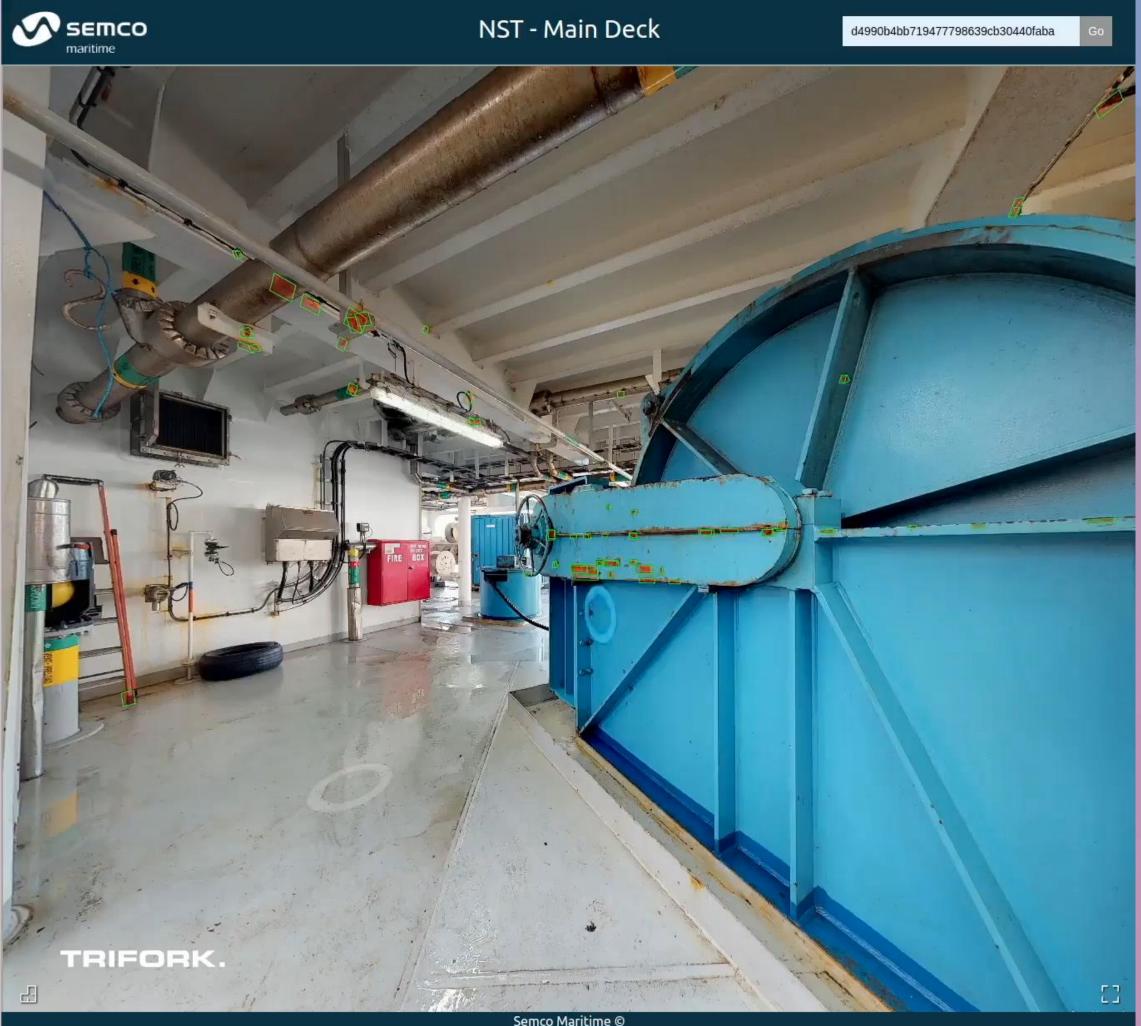
"Al offered exciting possibilities for analyzing the spread of invasive plants. To build the solution, we needed a robust, powerful infrastructure that NordFoU teams could use while on the road."

Lenovo TRIFORK.





A Danish Road Directorate service vehicle with the Trifork solution mounted on the back.





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