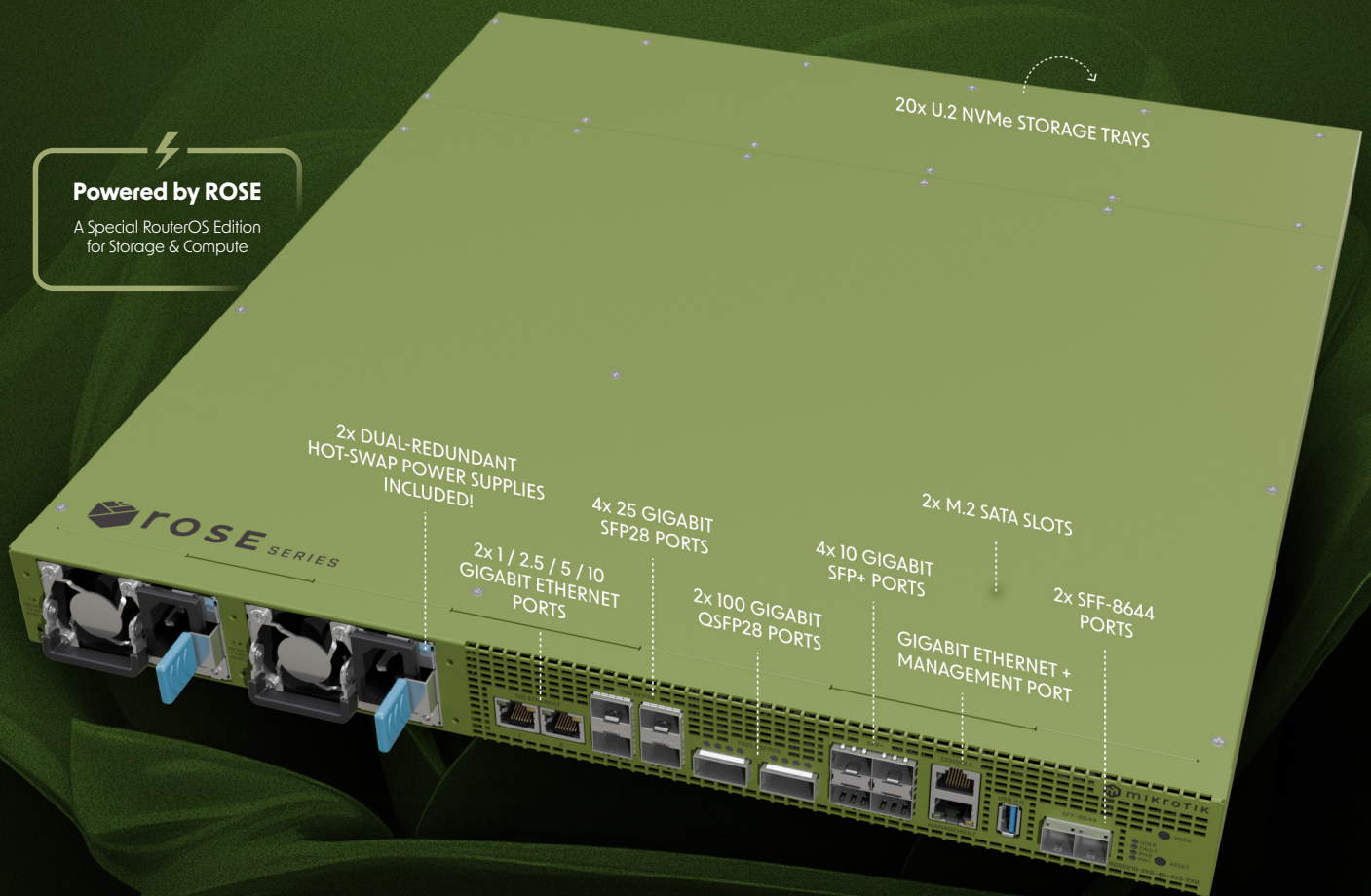**In this newsletter**
read about

RouterOS enterprise Data Server

$ 1950   **PDF**   🌐

a high-performance, all-in-one storage, networking, and container platform designed for enterprise environments.

Powered by ROSE
A Special RouterOS Edition for Storage & Compute

20x U.2 NVMe STORAGE TRAYS

ROSE SERIES

2x DUAL-REDUNDANT HOT-SWAP POWER SUPPLIES INCLUDED!

2x 1 / 2.5 / 5 / 10 GIGABIT ETHERNET PORTS

4x 25 GIGABIT SFP28 PORTS

2x 100 GIGABIT QSFP28 PORTS

4x 10 GIGABIT SFP+ PORTS

2x M.2 SATA SLOTS

GIGABIT ETHERNET + MANAGEMENT PORT

2x SFF-8644 PORTS

MIKROTIK

"Traditional IT setups separate networking, storage, and compute, leading to inefficiencies, high costs, and increased power consumption. The RDS changes that."

Cloud services can spy on you. Algorithms decide what you see. With RDS, you can host your own services, even social media!

TAKE BACK CONTROL

Third parties control your data. Should they? Your business, your files, your future — handed over to external providers with unclear policies and unknown risks.

Stop relying on the cloud. Own your infrastructure.

Introducing the **Rose Data Server (RDS2216)** — a high-performance, all-in-one **storage, networking, and container** platform designed for enterprise environments. **Secure, scalable, and under your control.**

WANT TO LEARN MORE?

WHY CHOOSE RDS2216?

- **20 U.2 NVMe storage slots** – Ultra-fast, high-density storage for demanding workloads.
- **100G high-speed networking** – 2× 100G QSFP28 ports, 4× 25G SFP28 ports, 4× 10G SFP+ ports, 2× 10G Ethernet ports, and an extra SFF-8644 interface for flexible connectivity.
- **16-core 2 GHz ARM CPU + 32GB DDR4 RAM** – High-performance processing for networking, storage, and virtualization.
- **Massive energy savings** – Cut power consumption and heat output while maintaining high performance — an eco-friendly solution for data-heavy environments.
- **Runs RouterOS** – The most flexible, modular networking OS. Supports advanced storage capabilities, including exporting block devices over NVMe-TCP, encryption layers, and modular storage configurations for scalable infrastructure. No subscriptions. No paywalls.
- **Container-ready** – Run MinIO, Nextcloud, Shinobi, Frigate, and other OCI compliant containers with ease. We've added two USB ports for additional devices and further adaptability.
- **Includes dual hot-swappable power supplies** – Ensuring uninterrupted operation and quick replacement without unnecessary downtime.

REAL-WORLD APPLICATIONS

Self-hosted MinIO cloud storage

– S3-compatible, ultra-fast, no vendor lock-in. Your cloud. Your terms. No hidden fees or security risks – just enterprise-grade object storage you control.

Enterprise cloud hosting

– Secure document storage with full **NextCloud** support. **Built-in BTRFS enterprise features** – snapshots, compression, and subvolume transfers – ensure efficiency, scalability, and data integrity. Give your employees peace of mind when they create, edit and share important documents!

High-speed backup & database clusters

– RAID, iSCSI, NVMe-TCP, and TCG-Opal self-encrypting drives ensure secure, high-performance storage. Designed for PostgreSQL, MariaDB, and mission-critical workloads with near-instant failover and future-proof scalability as NVMe technology advances.

Containerized infrastructure

– Run VMs, automate workloads, and build scalable systems. For memory-intensive applications, **built-in swap support** prevents out-of-memory failures, ensuring smooth performance even under heavy workloads.

Branch office storage expansion

– Branch office routers (like hAP ax2) can mount NFS, SMB, or NVMe-TCP storage—no need for local USB/SD storage. Need fine-tuned control? RouterOS lets you encrypt, format, and share storage over multiple protocols— modular and scalable, just like your network. This enables hundreds of routers to run containerized apps, store logs, and access shared data—without requiring local storage.

Auto-encrypting storage

– TCG-Opal self-encrypting drives for hardware-level security. When hardware encryption isn't an option, built-in block device encryption ensures data protection without performance trade-offs—effortless **GDPR compliance.**

Private social media hosting

– Host your own Pixelfed, Loops, or Matrix network. No tracking. No ads. No external interference—true digital independence. The world is moving local for a reason.

ONE DEVICE. ENDLESS POSSIBILITIES.

It's a breakthrough in flexible networking and storage for the most demanding enterprise environments. Reliable 100-Gigabit connectivity. Ultra-fast NVMe storage support. Containers. Enterprise-grade performance.

No subscriptions. No paywalls. Just pure, future-proof performance.
You buy it – you own it. **Forever.** That's a core **MikroTik** principle.

MIKROTIK

The smarter way to build your infrastructure.

Chateau LTE12

$ 179 — PDF — 🌐

Your best friend when it comes to mobile networks. Amazing in the hands of seasoned system administrators. Or in a household with zero IT skills. Or anything in between. Chateau can do it all.

5X GIGABIT ETHERNET PORTS	FAST AND RESPONSIVE LTE CATEGORY 12 MODEM	MOBILE CONNECTIONS UP TO 600 MBPS
POWERFUL QUAD-CORE ARM CPU	STRONG DUAL-BAND, DUAL-CHAIN RADIO FOR MAXIMUM COVERAGE	CONTAINER SUPPORT

Remove the bottleneck in your mobile internet setup

Are you tired of ISP or operator-issued routers that limit your speed and coverage? Chateau LTE12 is the solution, delivering faster, more reliable mobile internet, whether you are in the city or the countryside. With carrier aggregation and expanded 4x4 MIMO support, you'll experience:

- Faster speeds in crowded areas
- More stable connections in remote locations
- Wider coverage across multiple LTE band

New and improved LTE connectivity:

Upgraded LTE12 modem
for stronger, reliable connections.
Now with B32 support for improved LTE performance in supported regions!

Expanded 4x4 MIMO support on more bands:
1 / 3 / 7 / 38 / 40 / 41

Dual-band Wi-Fi for seamless performance
across all devices

Built for homes and businesses

- **5x Gigabit Ethernet ports** to connect media servers, PC towers, TVs, or smart home systems.
- **Dual-band Wi-Fi (2.4 GHz & 5 GHz)** ensures stable connections for all your devices.
- **External LTE antenna support** (not included) to boost signal strength in tricky signal areas.
- **RouterOS for advanced security, VPNs, and full network control.**

Stay ahead of connectivity challenges with the improved Chateau LTE12.
Powerful, secure, and designed to keep you connected—anytime, anywhere!

Join MikroTik at

Mobile World Congress 2025 in Barcelona!

📅 **March 3-6, 2025**

◎ **Hall 7 Stand 7C71**

📍 **Fira Gran Via**
Av. Joan Carles I, 64
08908 L'Hospitaletde Llobregat Barcelona

Join us from March 3–6, 2025, for an exclusive first look at our newest outdoor 5G solutions and other cutting-edge innovations in networking. This is your chance to connect with our team, explore the future of connectivity, and experience MikroTik's latest breakthroughs before anyone else. See you at MWC Barcelona!

MikroTik › MWC Barcelona

TRAIN THE TRAINER
April 23-25

Do you want to become a MikroTik certified trainer and conduct your own training courses? Then join our Train-the-Trainer course in Riga this spring - we will teach you all there is! As always, we offer a discount code for your stay in the local Rixwell and Wellton hotels: *Mikrotik2025*

Video   ### Learn more

Routing Firefighters to victory:
the tech-fueled race to Svatá Hora

My name is Vítek, and I'm a volunteer firefighter in Příbram – Březové Hory, Czech Republic. Each September, our brigade organizes a grueling firefighter race up the 400-meter-long roofed staircase to Svatá Hora, commemorating the 1978 basilica fire. This year, 150 firefighters from multiple countries joined the challenge.

© Petr Čížek

THE CHALLENGE: RELIABLE TIMING & TRACKING

With a 550-meter distance between the start and finish—and no line of sight—establishing seamless communication was difficult. Previously, we relied on a fragile, heavy telephone cable that suffered annual damage. It was time for an upgrade!
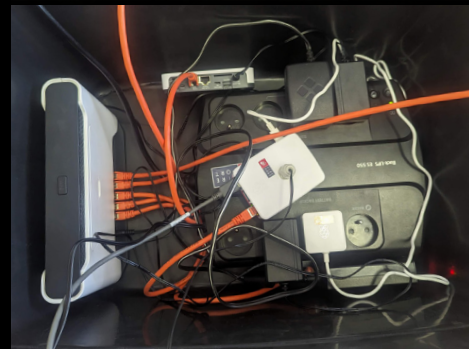
THE SOLUTION: LTE-POWERED SMART RACE SYSTEM

We replaced the old wired system with a MikroTik-powered wireless setup, ensuring real-time timing, tracking, and live video—without a single lost timestamp!

- **Timing & Results**: A Raspberry Pi (GPS-synced) at the start captured millisecond-precise timestamps, transmitted over **Chateau LTE12** to an Azure VM for real-time calculations.
- **Position Tracking**: Firefighters wore **MikroTik TG-BT5-IN** tags (engraved via laser cutter). MikroTik **KNOT** gateways along the track detected movements and updated the system.
- **Live Video & Streaming**: A computer with OBS streamed video from checkpoints over H.264 encoding. **MikroTik OmniTik 5 ac** provided Wi-Fi for mobile cameras. **MikroTik ATL LTE18** ensured **strong LTE connectivity** at a crucial checkpoint.
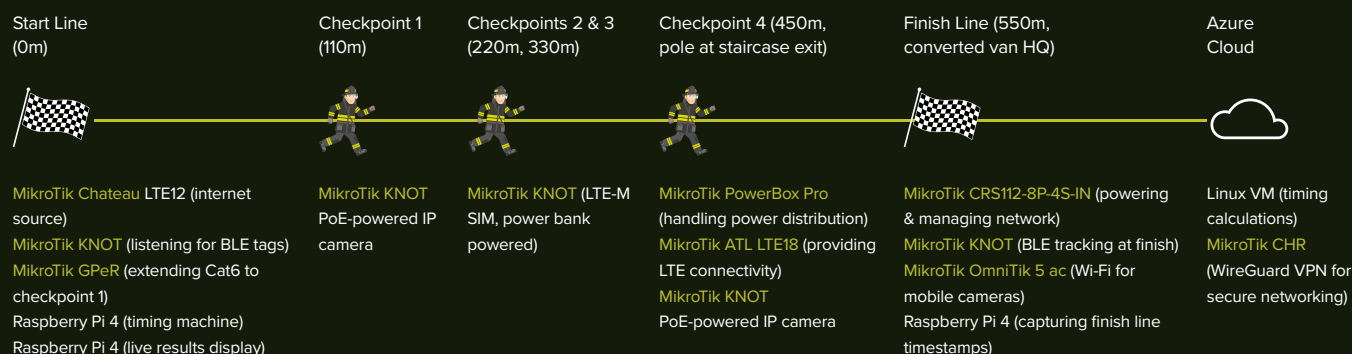

TG-BT5-IN

THE TECH IN ACTION

Start Line (0m)	Checkpoint 1 (110m)	Checkpoints 2 & 3 (220m, 330m)	Checkpoint 4 (450m, pole at staircase exit)	Finish Line (550m, converted van HQ)	Azure Cloud
MikroTik Chateau LTE12 (internet source)	MikroTik KNOT PoE-powered IP camera	MikroTik KNOT (LTE-M SIM, power bank powered)	MikroTik PowerBox Pro (handling power distribution)	MikroTik CRS112-8P-4S-IN (powering & managing network)	Linux VM (timing calculations)
MikroTik KNOT (listening for BLE tags)			MikroTik ATL LTE18 (providing LTE connectivity)	MikroTik KNOT (BLE tracking at finish)	MikroTik CHR (WireGuard VPN for secure networking)
MikroTik GPeR (extending Cat6 to checkpoint 1)			MikroTik KNOT PoE-powered IP camera	MikroTik OmniTik 5 ac (Wi-Fi for mobile cameras)	
Raspberry Pi 4 (timing machine)				Raspberry Pi 4 (capturing finish line timestamps)	
Raspberry Pi 4 (live results display)					

THE RESULTS

98% success rate – flawless timestamps, uninterrupted tracking, and smooth video streaming. A **huge thanks** to MikroTik for making this possible—your hardware turned our ambitious vision into reality!

Greetings from Příbram to Riga,
Vítek.

Spotted in the Wild

Have some fun in the MikroTik Lounge!

New #MikroTips and tricks!

HERE YOU CAN DOWNLOAD ALL THE VISUALS USED IN THIS NEWSLETTER