



Stream and Save Movies Without Any Interruptions at Any Time

waipu.tv relies on Seagate Mach.2 storage technology in combination with BigFoot® Storage XXLarge storage systems from RNT Rausch

Streaming is all the rage – and the global pandemic gave it yet another boost. The pay TV and streaming industry in Germany alone saw turnover equalling a total of €4.2 billion in 2020 according to Vaunet, the leading organization for audiovisual media in Germany. The entertainment platform waipu.tv, operated by EXARING AG, also played a major role in this. waipu.tv is the market leader for Internet TV in Germany with more than 3 million users. In addition to classic TV, waipu.tv customers can use many convenient features enabling them to record, pause, and resume movies and series, among many other options. What's more, waipu.tv offers the largest pay TV offering in Germany as well as a huge media library with over 50,000 movies and series on demand.

EXARING relies on Exos 2X14 dual-actuator hard drives with Mach.2 technology from Seagate to handle the copious amounts of data generated by retrieving and storing millions of digital movies and series. They ensure an uninterrupted streaming and TV experience at all times together with the BigFoot® Storage XXLarge storage systems from RNT Rausch.

Media library in the cloud: high requirements for data storage

These are the demands that users place on streaming services today: stream your favorite show without additional hardware, without delays, in high resolution, on your preferred device and, best of all, exactly when you have time. waipu.tv offers all of these functionalities in one service.

Depending on the service package, users can secure between 50 and 100 hours of broadcast time to be recorded so they can view it whenever they want in their own media library. This places very high demands on the backend storage systems. waipu.tv does not rely on set-top boxes or receivers. Instead, the company opts to store data in its own cloud infrastructure for reasons of user-friendliness. This is mapped via high-performance storage solutions in data centers in the Greater Leipzig and Frankfurt areas. "We must ensure at all times that our customers have quick access to their own media library and can start their recordings anywhere and watch them in top quality without interruption," says Christian Storch, CTO of EXARING AG. "Following an intensive testing phase, we then decided on the Seagate Exos 2X14 dual-actuator hard drives with Mach.2

technology in combination with the BigFoot® Storage XXLarge storage systems from RNT Rausch. This allows us to achieve the best performance at a very attractive TCO."

Seagate Exos 2X14 hard drives with Mach.2 technology: twice the level of performance for data-intensive applications

Seagate Exos 2X14 dual actuator hard drives with Mach.2 technology double the IOPS performance of a single hard drive by using two independent actuators that can transfer data to the host computer simultaneously. They offer the highest drive performance – IOPS, throughput, reduced latency – while easily handling the growing volume of data. As a result, companies with data-intensive applications like EXARING get the highest level of drive performance while easily managing the ever-growing volume of data – without compromising capacity or total cost of ownership.

waipu.tv uses a total of 384 Exos 2X14 hard disks in eight Bigfoot 4u48. In this manner, waipu.tv was able to increase the number of simultaneous recordings per individual hard drive by around 30 percent. The company sees further potential for increasing this figure.

BigFoot Storage XXLarge from RNT Rausch: fast data throughput for large data volumes

BigFoot Storage XXLarge is a complete storage system that stores and quickly processes very large amounts of data. A BigFoot Storage XXLarge can accommodate 48 Exos 2X14 hard drives while having space for additional 2.5" SSDs as well as the motherboard with CPU, memory, and controller. In this way, EXARING achieves a maximum storage of 576 TB on the hard disks and flash storage for caching in the same system via SSDs. This ensures high data throughput and best performance, and waipu.tv users enjoy clear 4K/HD images without any interruptions. When the platform launched, EXARING provided more than 4.5 PB for waipu.tv customers. It's enough space for more than 450,000 one-hour HD movies!

Another advantage: the space requirement in the data center remains manageable, because only four rack units are required per addressed system. "This allows us to fit more data into much less space, which is also reflected in the budget," explains Christian Storch. "This is also why with waipu.tv we are able to offer our users additional storage between 50 and 100 hours as an option. BigFoot Storage XXLarge provides impressive speed, capacity, and pricing. Together with the Seagate Exos 2X14 hard drives, the storage system is the best choice for us, and our customers are very satisfied. We would work with RNT Rausch and Seagate again anytime."



About Seagate

Seagate shapes the data world with innovative, high-precision data management solutions and a focus on sustainable partnerships to help users realize the full potential of data. Seagate has been a global technology leader for more than 40 years and has shipped storage solutions with a combined capacity of more than 3 billion terabytes.

More information is available under www.seagate.com.



About RNT Rausch

With thousands of systems installed, RNT Rausch has been a pioneer in the server and storage industry for more than 20 years. We have made it our business to always develop the best, most future-proof server and storage solution concept for your challenge with a sharp mind and innovative spirit. You'll exceed your digital transformation goals while your total cost of ownership continues to drop. RNT Rausch makes small and medium-sized enterprise, large companies, data centers, and service providers around the world ready for the technological revolution of tomorrow.

More information is available under rnt.de.



About EXARING AG and waipu.tv

EXARING AG develops and operates the first fully integrated platform for IP entertainment services in Germany. waipu.tv was launched on the German market as a next-generation IPTV in 2016. It is now the market leader for Internet television in Germany. The platform reaches all households with Internet access in Germany with over 13,000 kilometers of its own fiber-optic infrastructure. waipu.tv replaces the cable or satellite connection with modern IPTV, even on multiple devices and in multiple rooms simultaneously. waipu.tv works independently of the Internet provider: unified with all the advertising possibilities of connected TV, right through to purchasing directly from the TV experience, without media discontinuity. EXARING AG was founded in Munich, Germany, in 2013. The freenet Group is the largest single shareholder. The founder and chairman of the board is Christoph Bellmer.

More information is available under www.exaring.de and www.waipu.tv.

seagate.com

©2022 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. One gigabyte (GB) is equal to one billion bytes and one terabyte (TB) is equal to one trillion bytes in terms of hard drive capacity. Your computer's operating system may use a different measurement standard and indicate a lower capacity. In addition, part of the specified capacity is used for formatting and other functions and is therefore not available for data storage. The quantitative usage examples for various applications are for illustrative purposes only. The actual amount depends on several factors, including file size, file format, features, and application software. Actual data speeds may vary depending on the operating environment and other factors, such as the selected interface and hard drive capacity. Seagate reserves the right to change product offerings or specifications without notice.

