

Powering the Cloud: Fox Renderfarm Transforms File Transfer Speed and Reliability with Raysync



Overview

Fox Renderfarm is a leading cloud rendering service provider in the computer graphics (CG) industry, serving over 200,000 users worldwide and operating more than 30,000 high-performance servers. Their infrastructure processes millions of frames each month and handles over 50 TB of rendered data daily. They support users across 60+ countries.



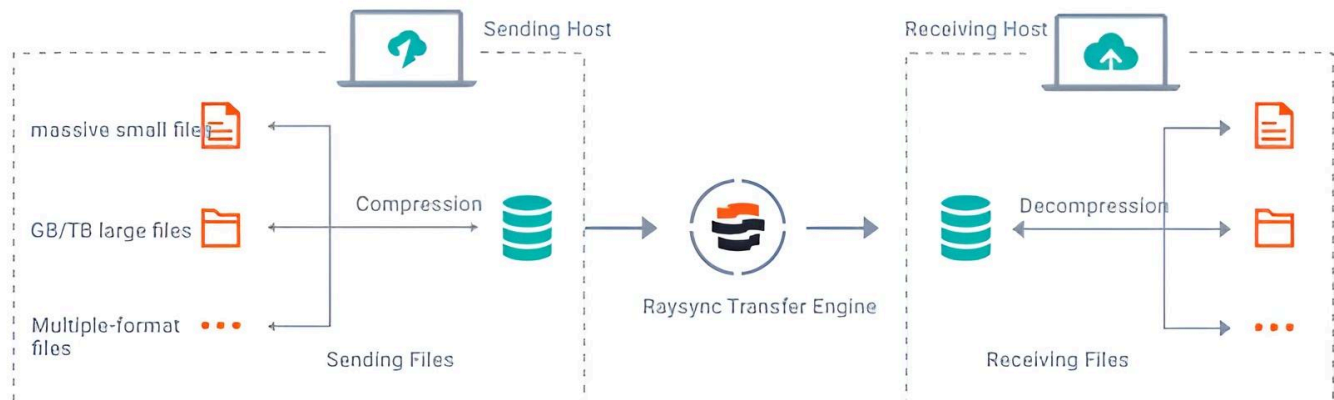
Challenges

Before implementing the file-transfer solution, Fox Renderfarm faced multiple hurdles:

- **Uploads and downloads** of large files (multi-GB to TB scale) **were very slow.**
- Transfers were **unstable**: if interrupted, users often needed to **restart from scratch.**
- The global span of their user base (60+ countries) created **latency** and **packet loss** issues, especially for long-distance transfers.
- The volume and complexity of data (scenes, textures, high-res footage) placed **high demands on bandwidth** and network infrastructure.
- **Security** of sensitive project assets during transit was a **major concern.**

The Solution

Raysync's High-Speed File Transfer



Fox Renderfarm integrated Raysync's accelerated file transfer protocol into its platforms via SDK and API. **The deployment provided:**

- **Deep integration** (Windows, macOS, Linux) with existing architecture so users could continue working with known interfaces.
- **High-speed, long-distance** transfers with **bandwidth utilization up to 95%**.
- **Reliable transfer mechanisms:** checkpoint resume, integrity verification, and retry logic to avoid full restart on failure.
- **Enterprise-grade security:** end-to-end encryption, strict access control, TPN certification for media-asset security.

Results Achieved

Following the integration, Fox Renderfarm **achieved substantial improvements:**

- **Massive speed improvements**, reducing transfer times from hours to minutes.
- **Bandwidth utilization exceeding 95%**, even across high-latency routes.
- **Virtually zero transfer failures**, minimizing rework and operational delays.
- **Smooth global collaboration**, allowing users in 60+ countries to transfer assets efficiently.
- **Reduced administrative overhead** in managing large data transfers.

Conclusion

By partnering with Raysync for their file-transfer infrastructure, Fox Renderfarm eliminated a major performance bottleneck. File delivery became faster, more secure, and globally consistent—empowering the company to meet tight production deadlines and serve a worldwide creative community with greater efficiency and reliability.