swift

CASE STUDY

How Swift Brings Content to the World's Most Isolated Environments with Wowza

WOWZA

![Wowza]

CASE STUDY: Swift

Delivering Streaming at the Edge: How Swift Brings Content to the World's Most Isolated Environments

DELIVERING RELIABLE STREAMING IN <1 MBPS ENVIRONMENTS WITHOUT THE NEED FOR ON-SITE IT

Swift operates in bandwidth-constrained locations like remote Australian mining camps, offshore vessels, aged care homes, and defense sites, where traditional streaming breaks down. To serve these audiences reliably, Swift built a resilient, edge-powered platform centered on Wowza Streaming Engine, delivering live and on-demand video with minimal latency, high uptime, and no on-site IT.

LOW-BANDWIDTH STREAMING

Enables live and VOD streaming on challenging sites with minimal bandwidth.

CROSS-SECTOR SCALE

Scales reliably across bandwidth-constrained locations.

REMOTE MANAGEMENT

Reduces operational overhead via remote monitoring and updates.

GOALS

- Deliver reliable video in locations with <1 Mbps connectivity and limited infrastructure.
- Support thousands of concurrent viewers during peak usage with consistent quality.
- Minimize on-site staffing needs with centralized management and zero-touch updates.
- Improve wellbeing and engagement with integrated communications and support content.

RESULTS

- 99.99% uptime across 150+ edge deployments using Wowza Streaming Engine.
- 25,000+ daily users served across Australia, including 3,000+ concurrent streams per site at peak.
- Predictive pre-caching and adaptive delivery sustain quality on sub-1 Mbps links.
- Human impact: better connection and access to mental-health resources where it's needed most.

THE STORY

Swift set out to deliver streaming "where streaming shouldn't work," serving remote mining villages, offshore operations, and aged-care communities where connectivity is limited and on-site IT is scarce. From the start, the team focused on a simple idea: put delivery close to viewers and manage everything centrally. That approach reduces dependence on unpredictable links and lets facilities rely on familiar screens in rooms and common areas.

At the heart of this model is Wowza Streaming Engine, which Swift uses as the runtime for its on-site streaming nodes. These localized deployments handle live and on-demand content close to the audience, so playback remains responsive even when backhaul bandwidth is constrained. Because Engine is designed to run in diverse environments, Swift can standardize how sites are built, configured, and supported.

Each site is connected to Swift's central operations, where configuration and content updates are coordinated. The team can roll out changes, schedule programming, and monitor health without dispatching technicians, which is crucial for locations that are far apart and hard to reach. When usage spikes, like shift changes or community events, the combination of local delivery and centralized oversight keeps experiences consistent.

For live workflows, Swift can bring in approved feeds and make them available to viewers through the same local node that serves on-demand content. Wowza's protocol support helps the system interoperate with a range of source types and playback targets, avoiding one-off builds for each site. This flexibility matters when facilities differ in infrastructure and connectivity, yet need the same dependable outcome on the screen.

On-demand content benefits from being positioned near viewers, reducing round trips over narrow links. With Wowza handling the packaging and delivery, Swift keeps playback smooth as conditions fluctuate, while still controlling what shows up where and when from a central console. The result is a predictable experience for residents and workers, whether they're watching entertainment, training, or internal announcements.

Together, Swift and Wowza turn constrained networks into reliable viewing and communication. Swift's edge deployment model ensures content is available locally; Wowza Streaming Engine provides the robust streaming foundation to ingest, prepare, and deliver it consistently. By pairing local resilience with centralized control, facilities get a managed, human-centered experience that works day after day precisely in the places traditional streaming struggles.

> " BY PLACING DELIVERY AT THE EDGE WITH WOWZA STREAMING ENGINE AND MANAGING IT CENTRALLY, WE TURN LIMITED LINKS INTO RELIABLE VIEWING FOR LIVE AND ON-DEMAND."
>
> **ADAM ASHLEY, CTO, SWIFT NETWORKS**

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