

How Sportradar delivered the Australian Open over IP with Aspera

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IBM **Aspera**

sp**o**rt**radar**



sportradar

- Based in Switzerland, Sportradar is an international company that collects, analyzes and distributes sports data and digital content
- With over 2,000 people in more than 30 locations around the world, Sportradar is the trusted partner of more than 1,000 companies in over 80 countries.
- Has 65 league and federation partnerships worldwide, including exclusive agreements with the NBA, NHL, International Tennis Federation & NASCAR





CHALLENGE

- Send 800+ live streams from the Australian Open to the cloud for processing
- Distribute to CDN partners globally in under 3 seconds of live action

Live Production Info

Australian Open

- 800+ of matches broadcast over the 14 day tournament
- Host broadcast provided all match feeds via SDI
- Channel 9 in Australia and Sky New Zealand were the primary regional broadcasters

AO Grand Slam of Asia-Pacific wildcard play-offs

- 5 day AO qualification tournament in Zhuhai, China
- Streamed 54 matches live for production in Sydney, Australia
- Sent Full HD master signal over IP from China to Australia



Sportradar Production Goals

- Utilize a fast, efficient, and secure data pipeline over unmanaged IP networks
- Eliminate satellite/fiber requirements
- Provide complete SDI stability over IP with high-bit rate feeds, particularly from China venue that added loss and latency

AO Production Requirements

- Ingest 2 x HD-SDI 1080i50 feeds per match
 - Up to 32 concurrent full resolution 1080p25 feeds delivered direct to cloud
- Complete stability of the signal with failover capabilities
- Auto-recover in case of network interruption
- Keep production contribution feeds to within 3 seconds of live action
- Constant in-application feedback, including local and remote statistics
- Real-time transport of MPEG2-TS streams directly into cloud processing
- Built-in encryption



SOLUTION

- Aspera's Streaming for Video with FASPStream technology
- Major cloud platform for processing and storage

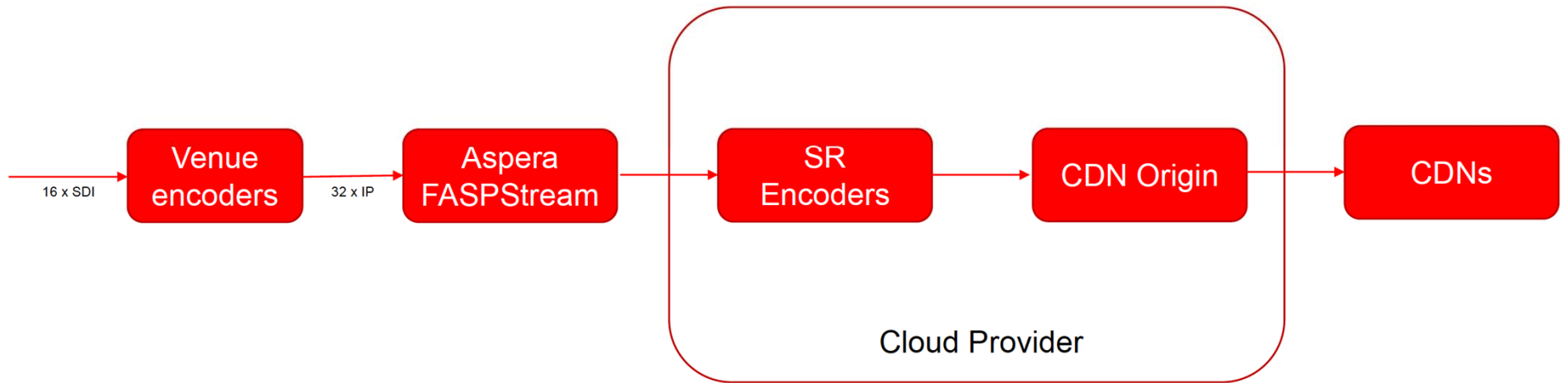
RESULTS

- Cost-effective hybrid cloud solution that met all the event and Sportradar requirements

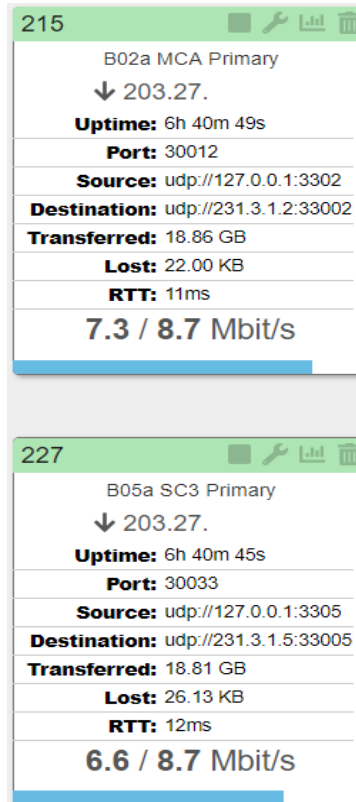
Solution Components

- IBM Aspera FASPStream software
- Venue Encoders
- Cloud Provider
 - Processing
 - FASPStream software
 - Sportradar Encoders v2.1
 - Storage
 - Live Origin - CDN
- CDN
 - Akamai
 - MSL₄ – HLS Direct Post
 - RTMP > HLS Packaging
 - AMD – Reverse Proxy to S3
- Other Distribution (China)
 - RTMP Entrypoints over long distance

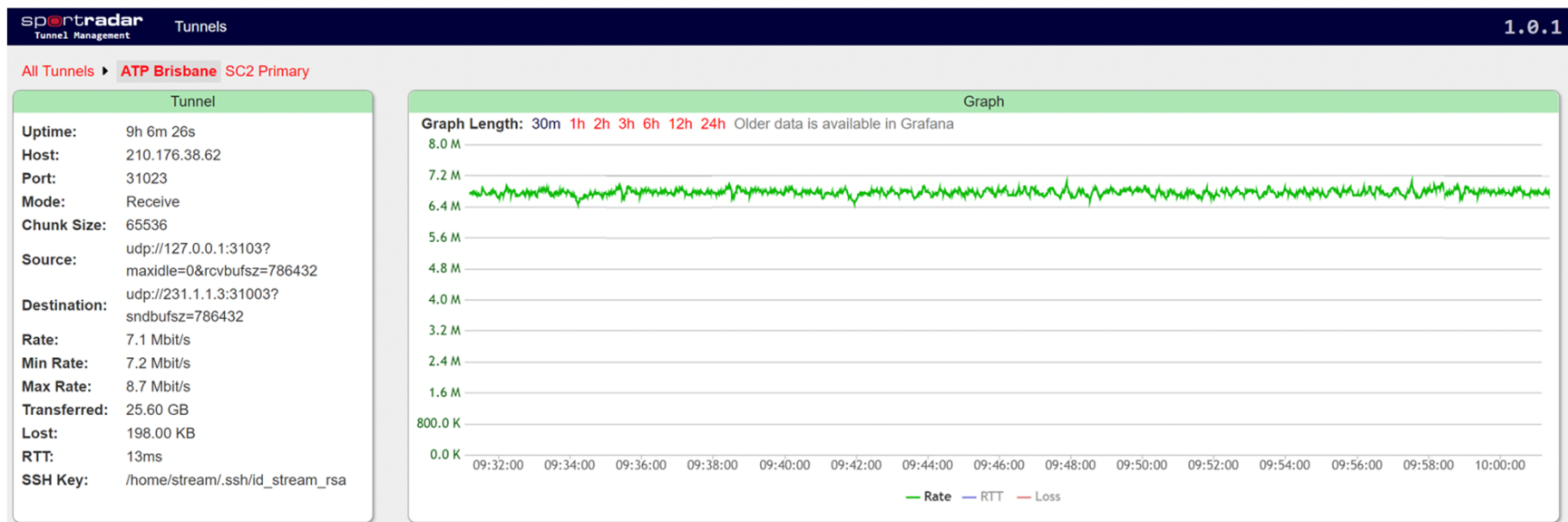
Event Signal Workflow



Event Production Setup / Monitoring



Event Production Monitoring



Key Results

- 16 x 2 concurrent live streams transported to cloud
- 800+ delivered matches
- 7 premium OTT websites utilized the streams
- Sportradar achieved a flexible setup for IP-based production with low latency and high reliability
- User-friendly and very stable stream contribution from venue to cloud

"IBM Aspera allows us to use our IP connectivity with incredible efficiency so we can receive more high-quality streams in parallel from more locations, no matter how far away, while virtually eliminating the probability of stream interruptions."

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Chief Streaming Architect, Sportradar

Thank You!

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