



SCTE CABLE-TEC
EXPO'13
OCTOBER 21-24 / ATLANTA, GA

MULTI-ROOM DVR

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Cablevision Systems

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Multi-Room DVR



Multi-Room DVR

Platform Overview

- ▶ Product features and flexibility
- ▶ Client code architecture
- ▶ Software control plane
- ▶ Ingest storage & streaming



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Product Features and Flexibility

- ▶ Simultaneous tuners recordings
- ▶ Storage offering
- ▶ Features enabled by software
- ▶ Whole home
 - This functionality is enable by having the content storage in the cloud. (Remote storage in the headend)



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Software control plane

- ▶ Cloud-based guide
- ▶ Cloud-based entitlement systems
- ▶ Cloud-based scheduling



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Roll Out and Feature Activation

- ▶ Cablevision commercially deployed our multi-room DVR service (RS-DVR) in January 2011
- ▶ Initial product offering
 - 160 G offering
 - 4 simultaneous recordings
- ▶ 8/2013 full footprint deployment completed



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Roll Out and Feature Activation

- ▶ **BETHPAGE, NY, July 24, 2013** – Cablevision Systems Corp. (NYSE: CVC) today announced significant enhancements to its cloud-based DVR service, delivering three times more storage than previously offered and more recording capability than any other service provider in the nation. Optimum's Multi-Room DVR, previously known as DVR Plus, now provides 300 hours of storage for Standard Definition content or 75 hours for High Definition. Customers can also record 10 programs simultaneously, virtually eliminating any scheduling conflicts. Multi-Room DVR from Optimum turns every set-top box in the home into a DVR and gives viewers the freedom to watch their recorded content from any TV.



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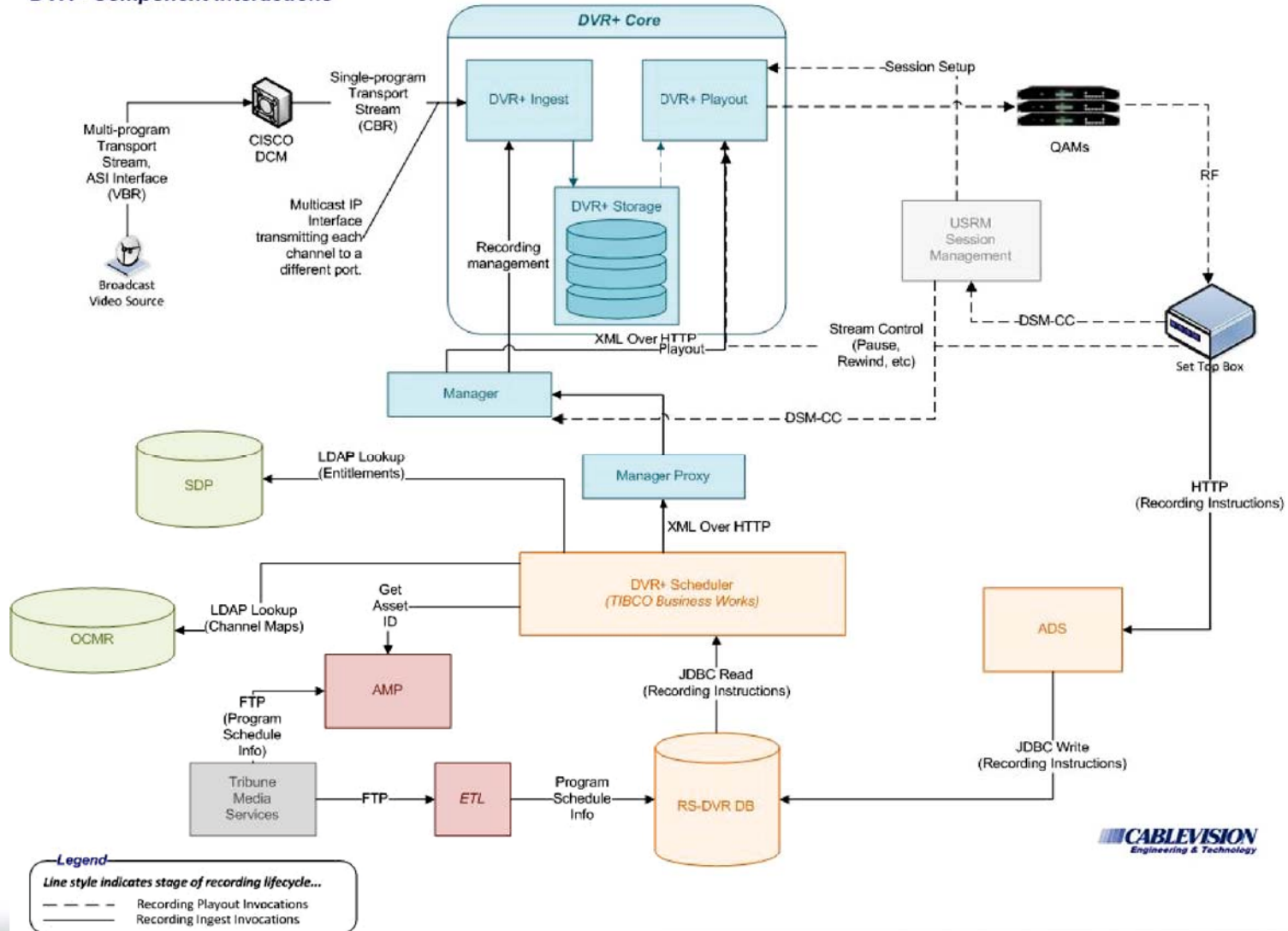
Roll Out and Feature Activation

- ▶ Multi-Room DVR from Optimum features include:
 - Record up to 10 shows at the same time
 - Up to 300 hours of storage
 - Record, manage and playback from every TV with a digital set-top box in the home
 - Full DVR management on Optimum.net and the Optimum App
 - Pause and resume viewing live television on every TV with a set-top box in the home
 - Simple preference settings to make scheduling recordings easy



Multi-Room DVR Reference Architecture

DVR+ Component Interactions



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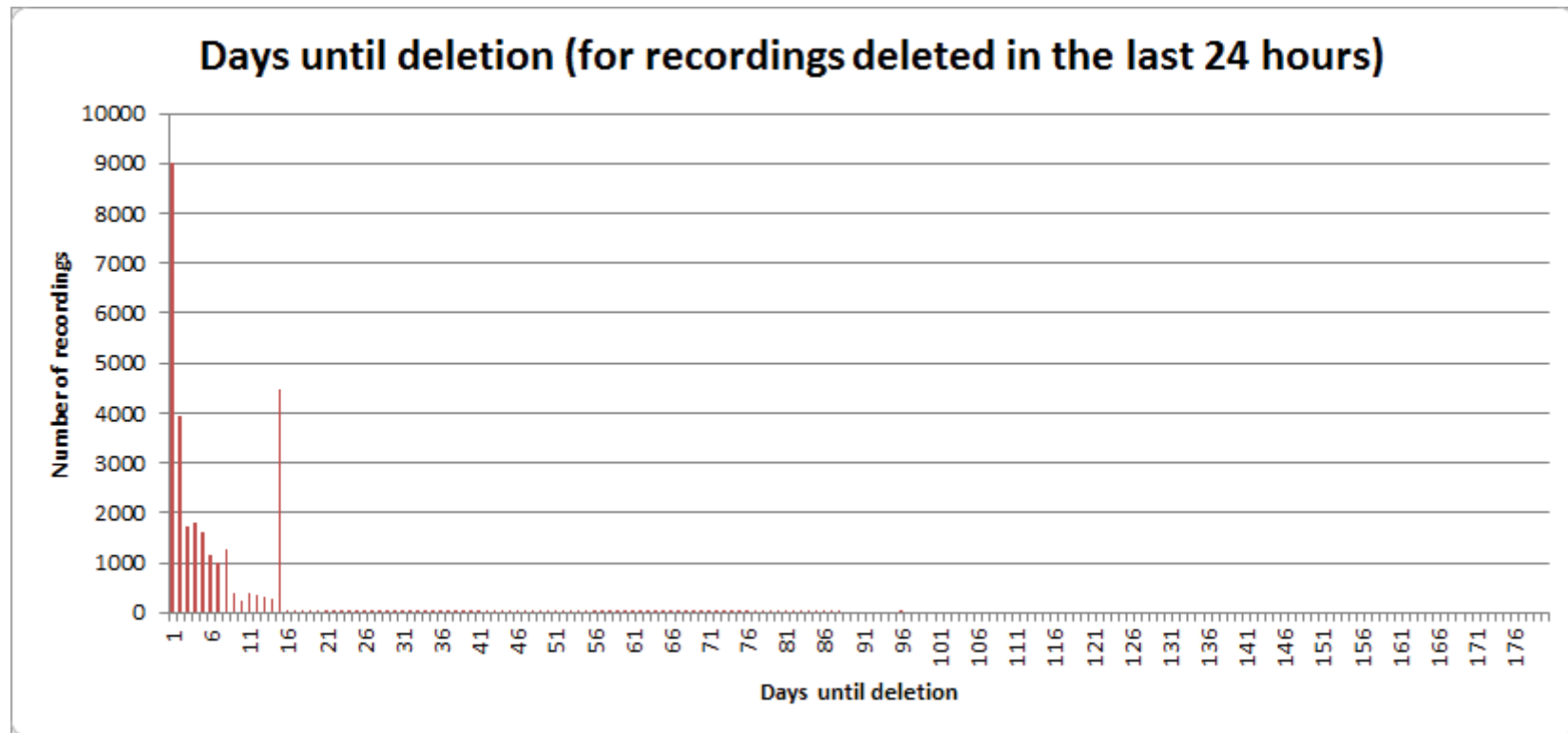
Ingest Storage & Streaming Considerations

- ▶ Disk capacity
- ▶ Maximum streaming concurrency
- ▶ Storage offering
- ▶ Simultaneous peak streaming and peak recording
- ▶ HD and SD rates
- ▶ Number of homes / system (building blocks)



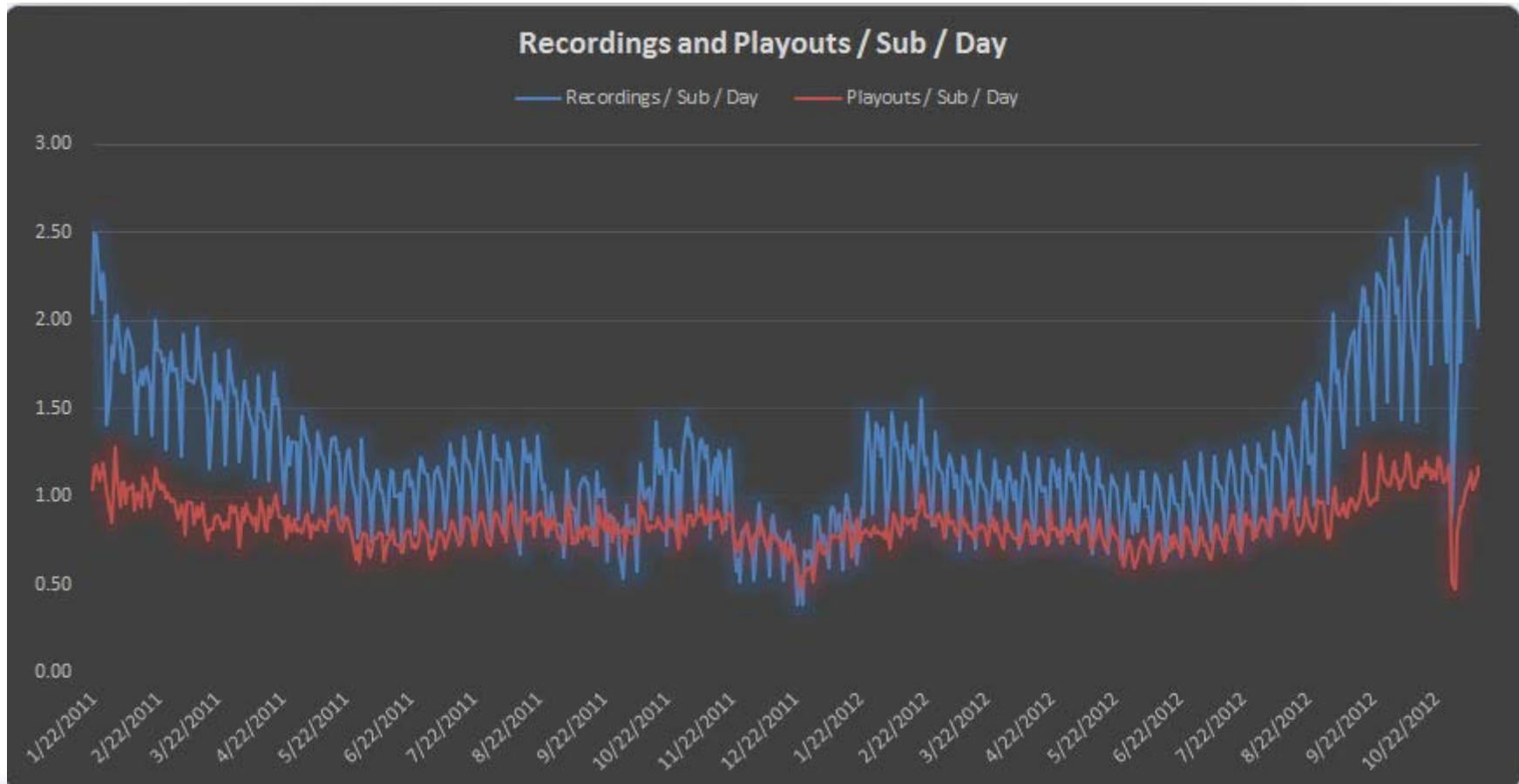
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Operational Data



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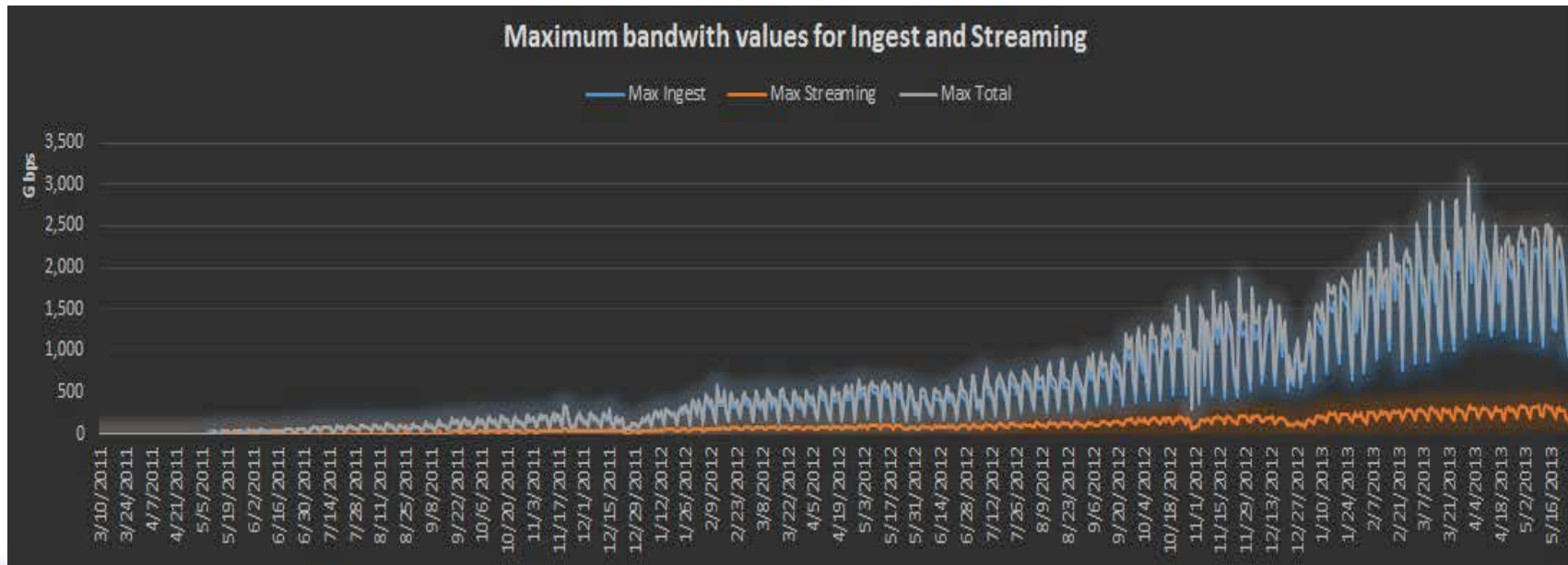
Operational Data



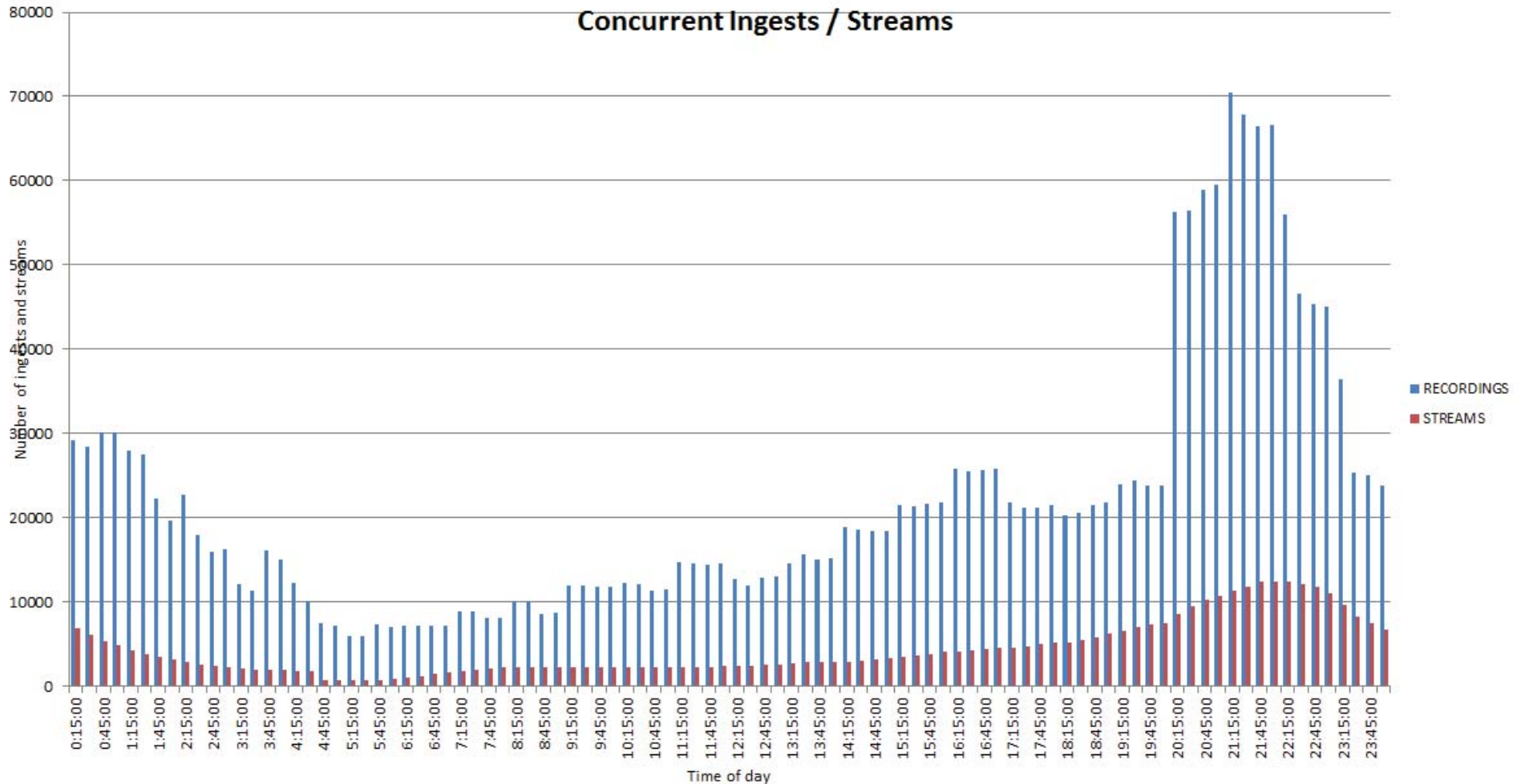
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Operational Data

- ▶ System must handle both ingest and streaming combined peaks



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