







Welcome to

MLB NETWORK





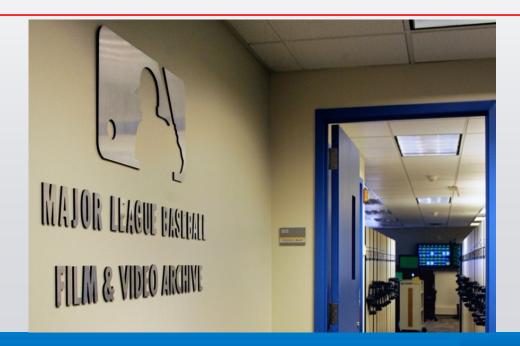


Tab Butler MLB Network

Sr. Director Media Management & Post Production

Hitting It Out Of The Park:







MLB Network Facts



- ✓ Largest debut in cable TV history by nearly 2X
- √ 50 Million Households Launch January 2009
- √ 65 Million Households September 2011
- ✓ Over 70 Million Households July 2013
- ✓ Production of NHL Network Oct 2015
- ✓ Consolidating MLB Production March 2019







NHL Network Move



- ✓ August 2015: BAM purchases NHL streaming rights
- ✓ September 2015: Edit systems and feed acquisition completed
- ✓ October 2015: Live NHL Network programming originates from NJ



- **✓** February 2016: Dedicated control room (PC-3) completed
- ✓ March 2016: Dedicated GFX control rom (GCR-3) completed.
- ✓ May 2016 Dedicated studio "The Rink" debuts





MLB Network Studio 3









MLB Network Studio 42









Studio K





MLB Network



NHL Network





MLB Network Studio 21

















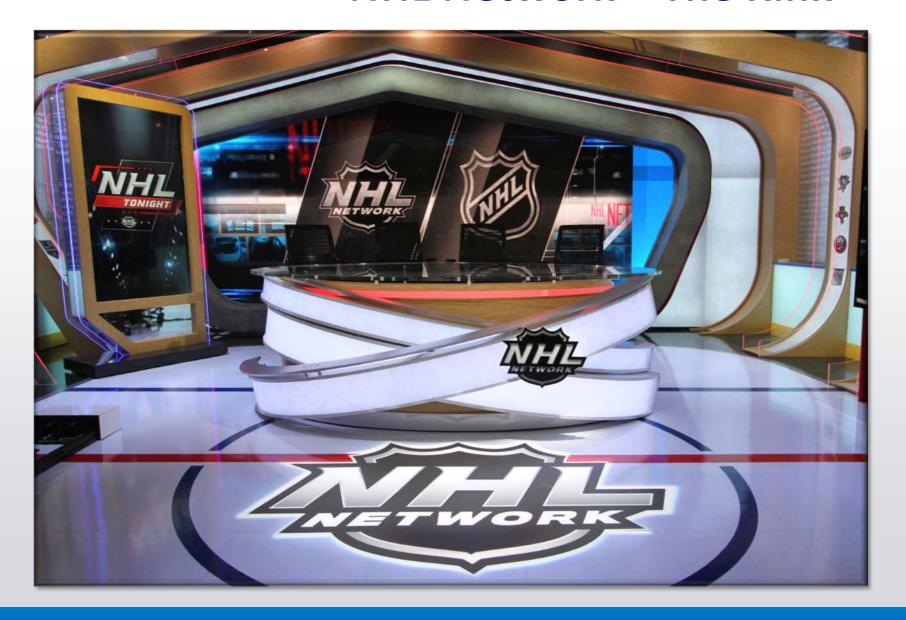
MLB Network Studio 21







NHL Network – The Rink



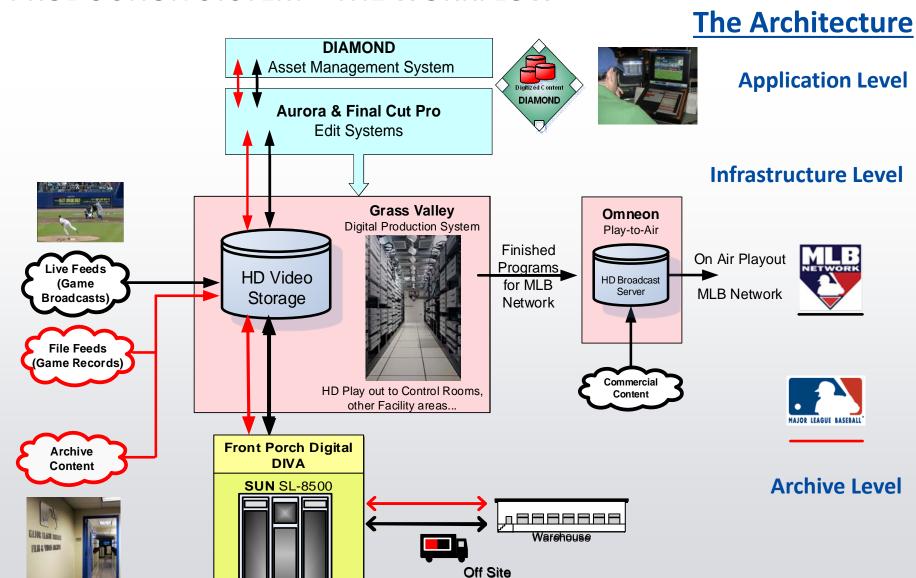






2008 PRODUCTION SYSTEM – THE WORKFLOW

HD Video Stored On Data Tape



Data Tape Storage





MLB Network - 2013



The Vision...

Expanding to the Data Center







MLB Network - 2013



Why Expanding...?

Current Space and Power Limitations







MLB Network - 2018



More People,
More Content,
More Outlets...

Expanding Again...







Off-site Data Center @ CoreSite







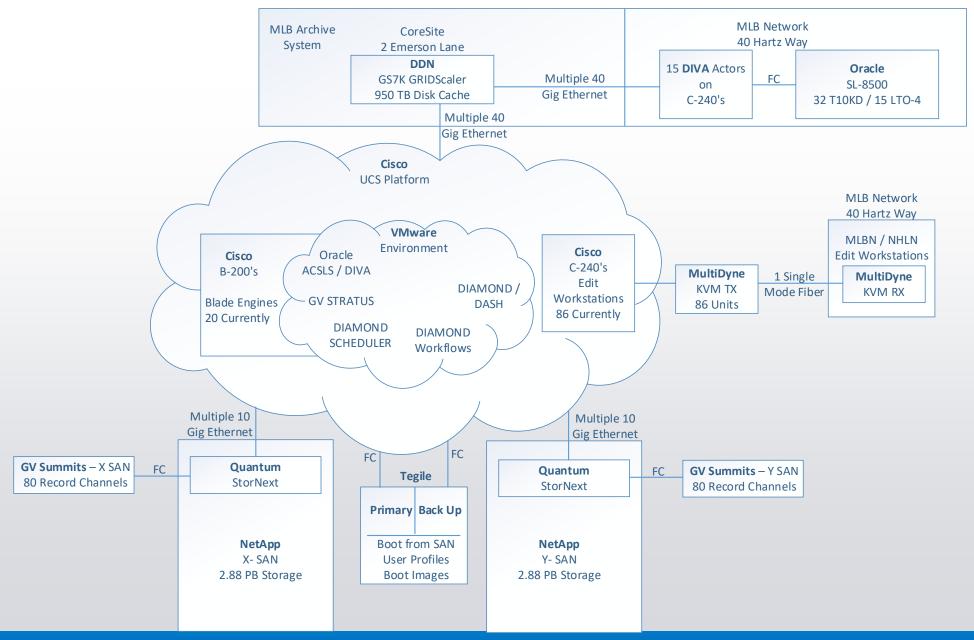


28 Racks
Expanding to
37 Racks





2014 PRODUCTION SYSTEM – THE WORKFLOW







MLBN Production Expectations

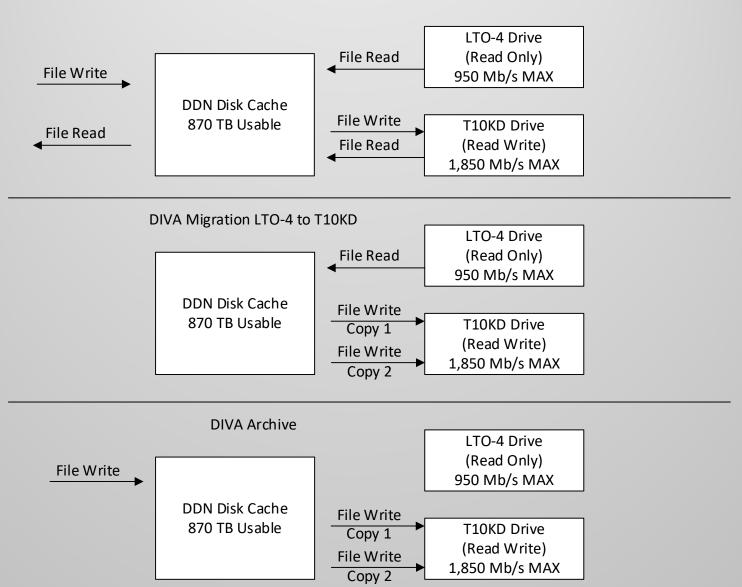
- Content Requests are fulfilled within 5 10 minutes
- Content required is short in nature... (Walk off home run... Etc.)
- Collections of disparate content is built in DIAMOND and restored automatically and quickly, with Media Management inserting tapes in robot, if necessary.
- Show records and game records can be 125 GB to 300 GB at 50 Mb/s
- A 307 GB file, on LTO-4, took 2 Hours and 7 Minutes to Restore
- A PFR from the same file took 3 minutes to Restore
- Current Tape Stock in Library
 - 20,046 LTO-4 Tapes (16 PB)
 - 6,006 T10KD Tapes (51 PB)







Oracle DIVA Architecture Workflows

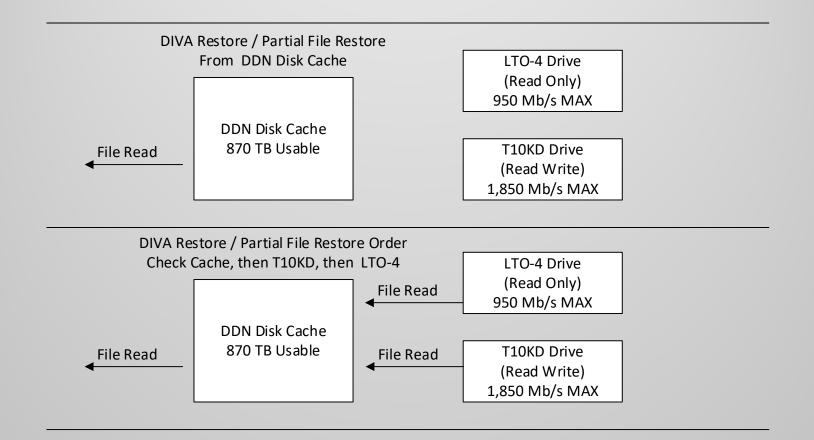








Oracle DIVA Restore Workflows







Oracle DIVA Migration Workflows LTO-4 to T10K-D

- January 2016 Install 32 T10K-D Drives in SL-8500
- August 2016 Started DIVA Migration to T10K-D Tape Format
 - 45,352 LTO-4 Tapes In Archive
 - 870 TB DDN NAS Disk Cache Key to Workflow
 - 12 LTO-4 Drives Dedicated 7x24x365 to Migration
 - 3 LTO-4 Drives Available for File Restores
 - 32 T10K-D Drives Available for All Writes, and Reads
- September 2018 Migrated 25,306 Tapes and Counting –
 20,000 to go....
- July 2020 Expected Migration Completion





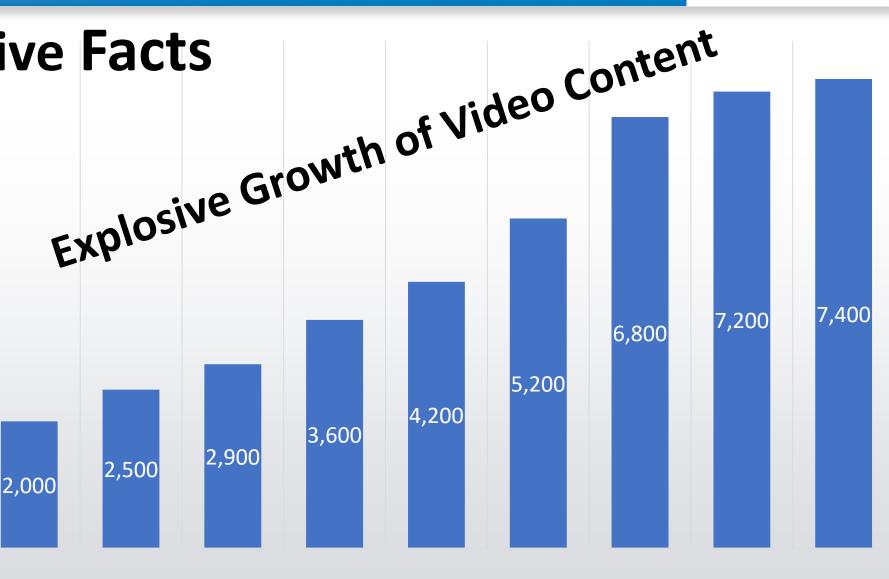
Oracle DIVA Migration Workflows T10K-D to LTO-9 / LTO-10

- 2020 Existing Migration Completes
 - Anticipate Over 12,000 T10K-D Tapes In Archive
 - MLB Network, MLB Archives, Plus MLB Digital Content
- Current Growth of Library is 150,000 Hours per Year
- 2022 or 2023 Next Migration Effort Begins
 - Technology Rollout will Drive Deployment Schedule
 - Dedicated Pool of 16-20 T10K-D Drives for Migration
- Migration Completion Target by 2026 or 2027



Video Archive Facts





2010 2011 2012 2013 2014 2015 2016 2017 2018

Hours of Content Recorded per Week

1,000,000

2018



Video Archive Facts



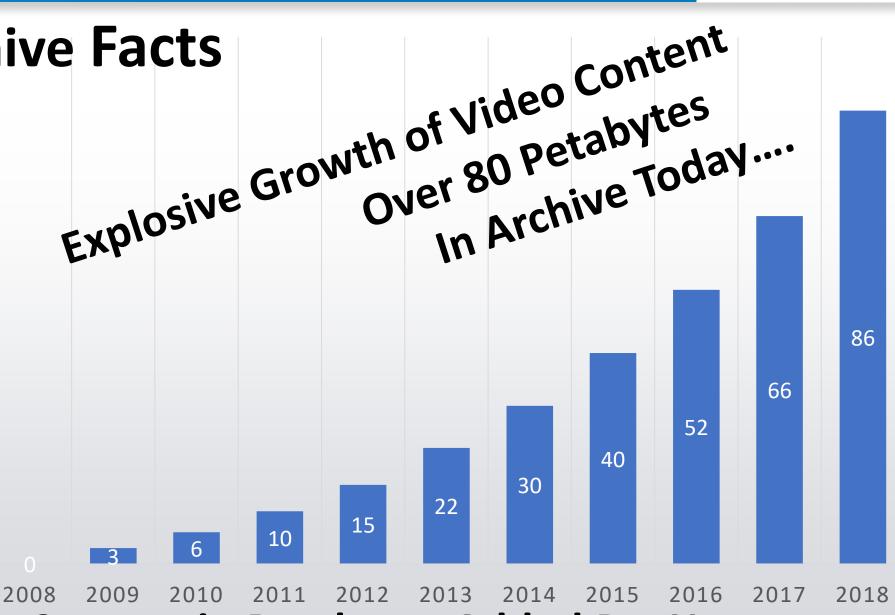


Content Growth Over the Years - in Hours



Video Archive Facts





Content in Petabytes Added Per Year







The DIAMOND Platform As Deployed at MLB Network

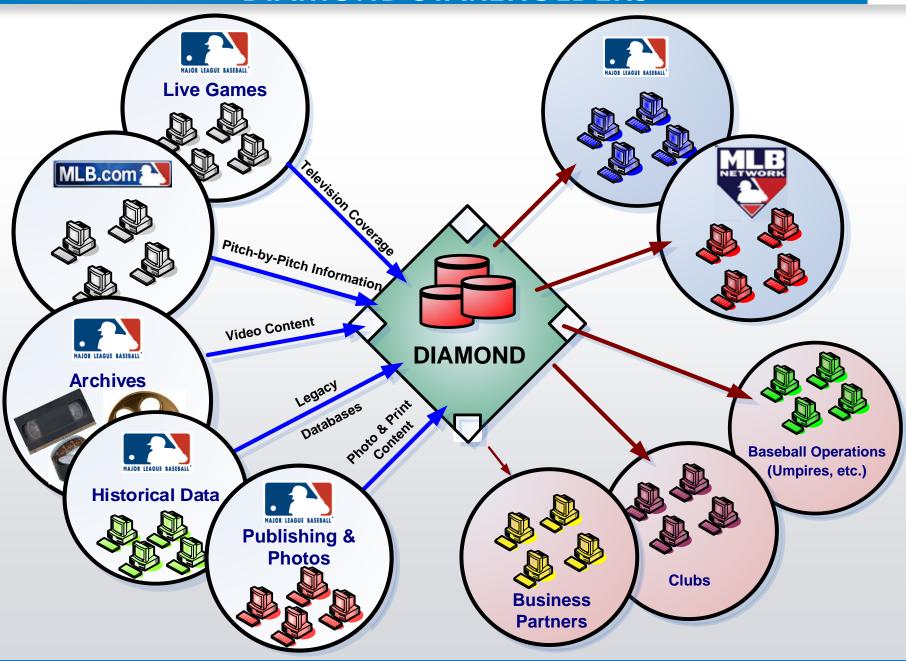






DIAMOND STAKEHOLDERS







DIAMOND System Components

- DIAMOND Core Server
- DIAMOND Logging
- DIAMOND View

- DIAMOND Game Logging
- DIAMOND Media Management
- DIAMOND Adobe Premiere Plugin
- DIAMOND DASH



DIAMOND System Components

- DIAMOND Core Server
- DIAMOND Logging
- DIAMOND View

- DIAMOND Scheduler
- DIAMOND Archive Integrated with Front Porch
- DIAMOND Cutter (UFTP Engine)
- DIAMOND Watcher (Automated File Movement)
- DIAMOND In The Cloud Platform





DIAMOND System Statistics

DIAMOND – MLB Baseball

 Total Assets 	1,154,886
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- Total Hours Logged (Approx.) 1,021,000
- Total Individual Events 11,890,077
- Total 'People' Identified 18,990,935
- Total Categorizations 47,975,012





DIAMOND System Statistics

DIAMOND ON ICE – NHL Hockey

•	Total Assets	217,75 3
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- Total Hours Logged (Approx.)
 150,000
- Total Individual Events 1,910,135
- Total 'People' Identified 3,232,102
- Total Categorizations 8,769,996





DIAMOND System Components



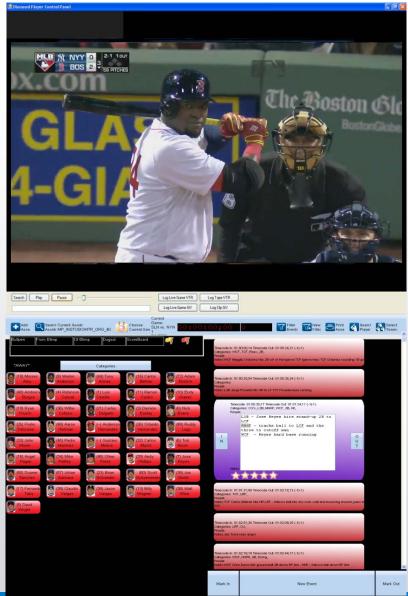
Twenty DIAMOND Logger Workstations





DIAMOND Logger Interface



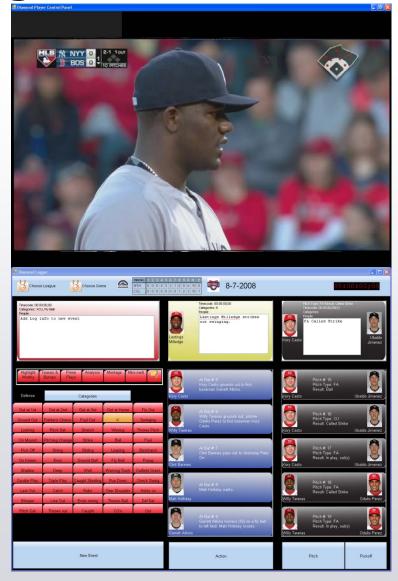






DIAMOND Game Logger Interface

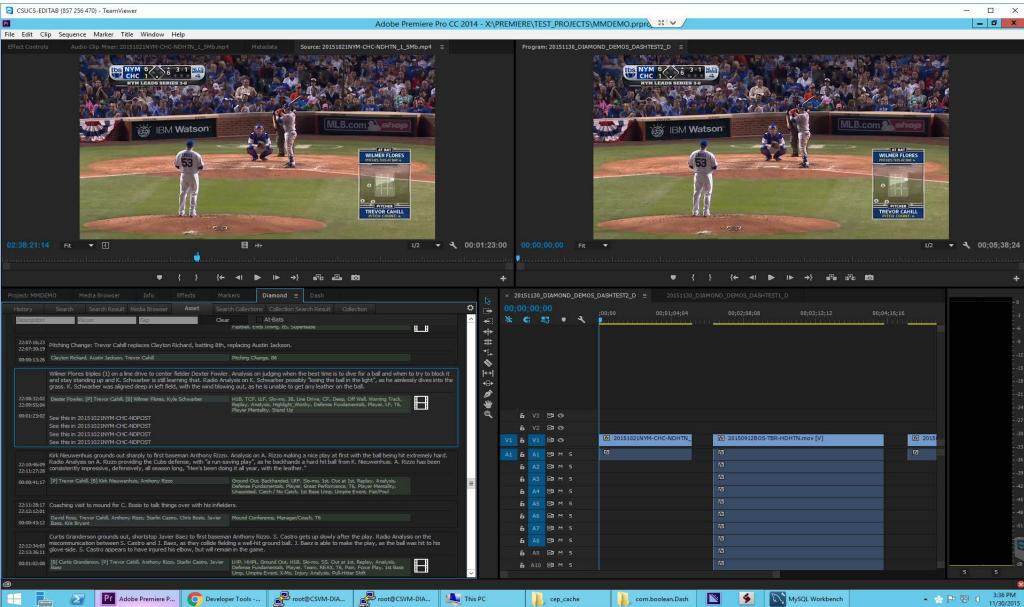








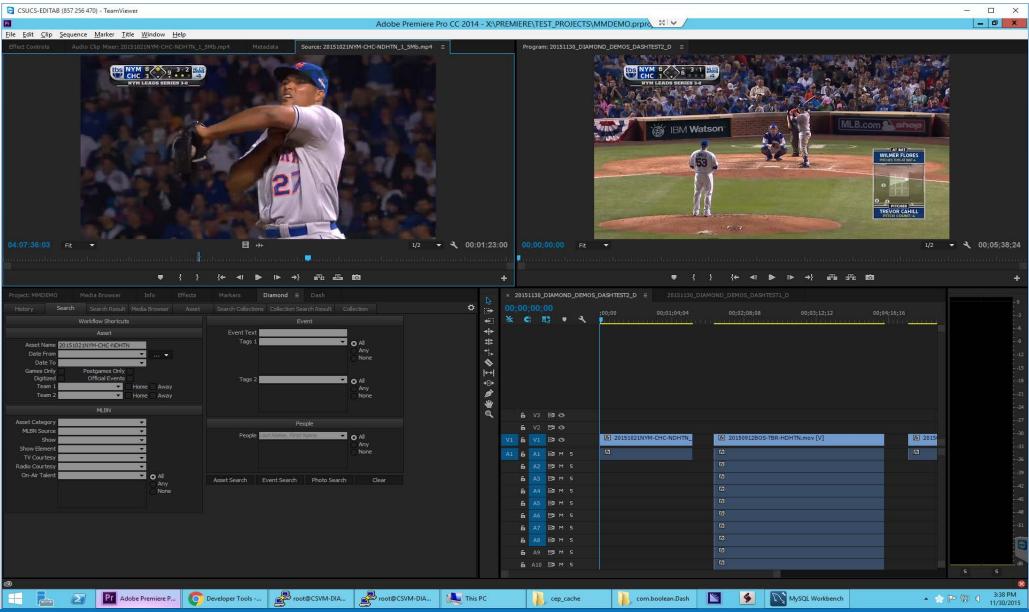
DIAMOND Premiere Interface – Basic Game View







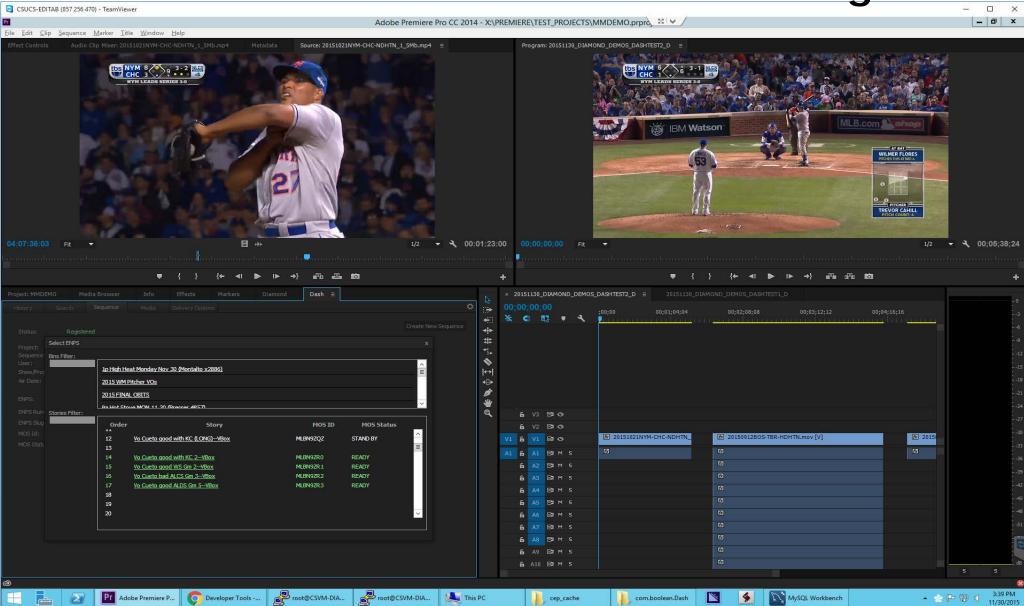
DIAMOND Premiere Interface – Search







DIAMOND Premiere Interface – ENPS Integration







DIAMOND Scheduler



DIAMOND Scheduler

New Search Templates Timeline Setup	Testing Edit Event ×			
Event info	Collapse/Expand All Changes will not be saved until Update Event button is clicked			
Template: Standard Game	20140923BAL-NYY-1 - 20140923BAL-NYY-1-HDHTN			
Event Name: 20140923BAL-NYY-1				
Event Date: 9/23/2014	Record Name 20140923BAL-NYY-1-HDHTN Open Ended End Date 9/23/2014	6:10 · · · · · · · · · · · · · · · · · · ·		
Event time: 19:05	Duration 0	:10		
	Channel XMC01-1 Router Source RX001 Send to cloud			
Create Records from Template	Destination X-DEFAULT ▼ Target Location Primary Games ▼ ✓ Create Proxy			
Add Record	Archive Rule			
Add Record	Cleanup Rule Days 0			
Update Event	20140923BAL-NYY-1 - 20140923BAL-NYY-1 - Delete			
	Record Type Crash Record Start Date 9/23/2014 • 1	9:05		
		9:05		
	Duration 0	:00		
	Channel Router Source Send to cloud			
	Destination			
	Archive Rule Days 0			
	Cleanup Rule Days 0			

Automates Records of 160 GV Summit Channels



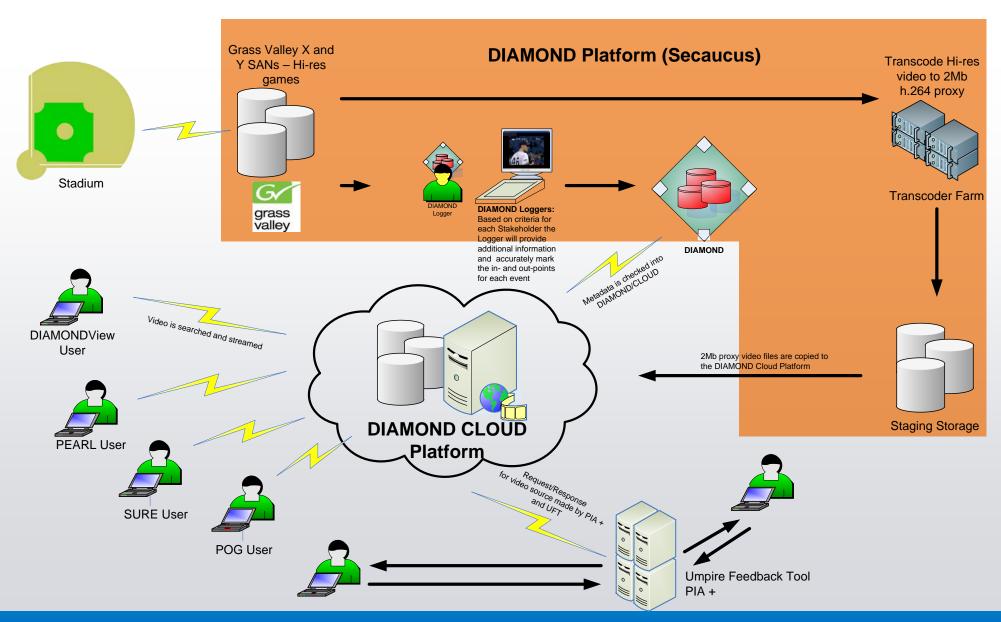


DIAMOND In The Cloud



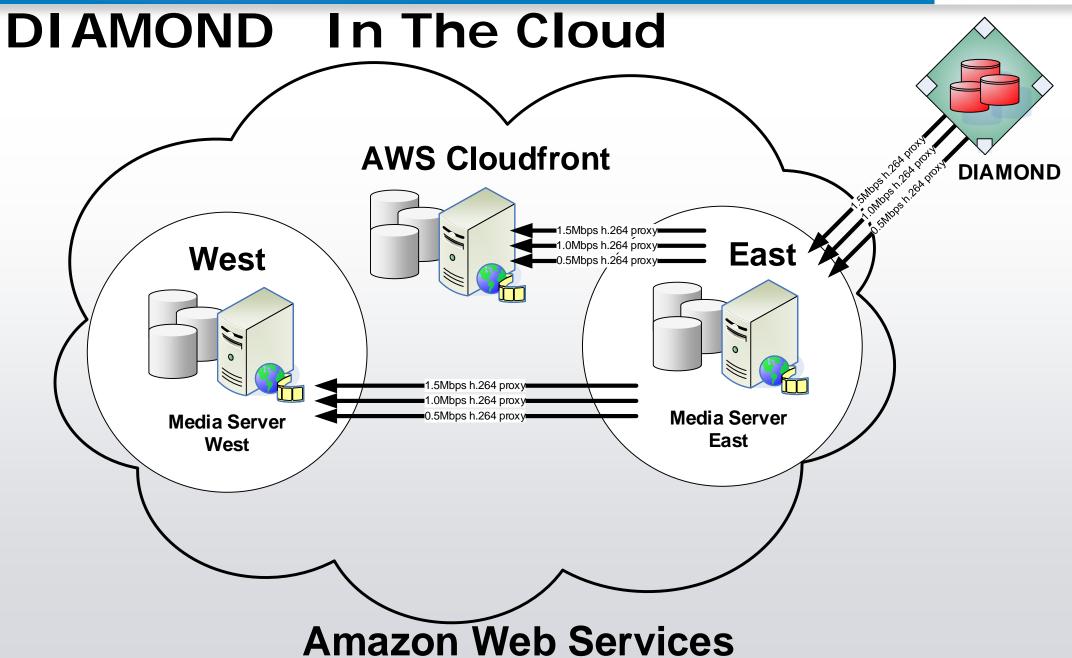


DIAMOND In The Cloud















THANK YOU!

Questions?

The MLB Network







