

NUTV: IPTV at Northwestern

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Outline

- Technology Overview
- History of NUTV
- Futures



Technology Overview

- 2 portals, 3 lineups, 36 channels
 - Campus: Basic & Expanded NUTV
 - Internet2: CSPAN1/2
- MPEG-4, 2Mbps, 320x240 resolution, 128Kbps stereo audio
 - 3Mbps, 480x480 for CSPAN2
- 80+Mbps steady state multicast traffic on backbone
- Anycast RPs for local/global groups



NUTV History

- Spring 2002
 - First trials (4 channels)
- Fall 2002
 - Initial deployment (20 channels)
- Fall 2003
 - Remote Seating, NU Channel
 - Basic vs. Expanded lineups
- Summer-Fall 2004
 - Student Channel (NUCH1)



NUTV History

- Summer 2005
 - Video on Demand
- Fall 2005
 - Server Upgrades (2 channels/server)
- Winter 2007
 - Content provider change
 - Additional channels (12)



Pictures!



Pictures!



Futures

- Set top boxes
- Increased stream quality (wiring constraints)
- Premium services



Questions?

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