

# Collaboration through Networking



Charles McMickle

New Jersey's College & Universities integrating technologies into instruction, research and public service through an enhanced statewide data/video network

# Collaboration through Networking



## ABOUT NJEDge.Net

- Non-Profit Corporation created by the NJ Council of College Presidents to provide network services, to foster collaboration, and to provide savings through economy of scale
- ISP for 43 colleges and universities
- IP-VPN provider
- I2 aggregator and SEGP for NJ
- Expanded to include K-12, teaching hospitals and other educational organizations

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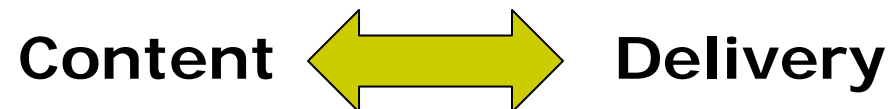
## Existing NJEDge Video Services

- Videoconferencing Portal
  - H.323 Polycom MCU with Web commander
  - QOS
  - GDS
  - I2 Commons collaboration
  - Marratech web conferencing servers
  - Haivision MPEG-2 videoconferencing
- Streamed Video
  - Live streamed and archived videoconferences
  - Quicktime and Windows
  - Provide encoding hardware



## Digital Video Delivery Project

- NJEDge.Net: Subcommittee on Digital Video Delivery (2004) to investigate & develop a pilot project in delivering video content over our NJEDge.net network
- VALE Standing Committee (2005) charged with identifying, licensing & incorporating streaming video content for the VALE member libraries



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## Pilot Project, FY 06

- Worked with Films Media Group to develop a license procedure of their content for digital delivery  
<http://www.fmgondemand.com/vale>
- 14 institutions purchased 50/100/250 title packages
- Assess through surveys and use statistics after a full semester of access
- Continue to seek funding for additional titles and hardware to support this venture

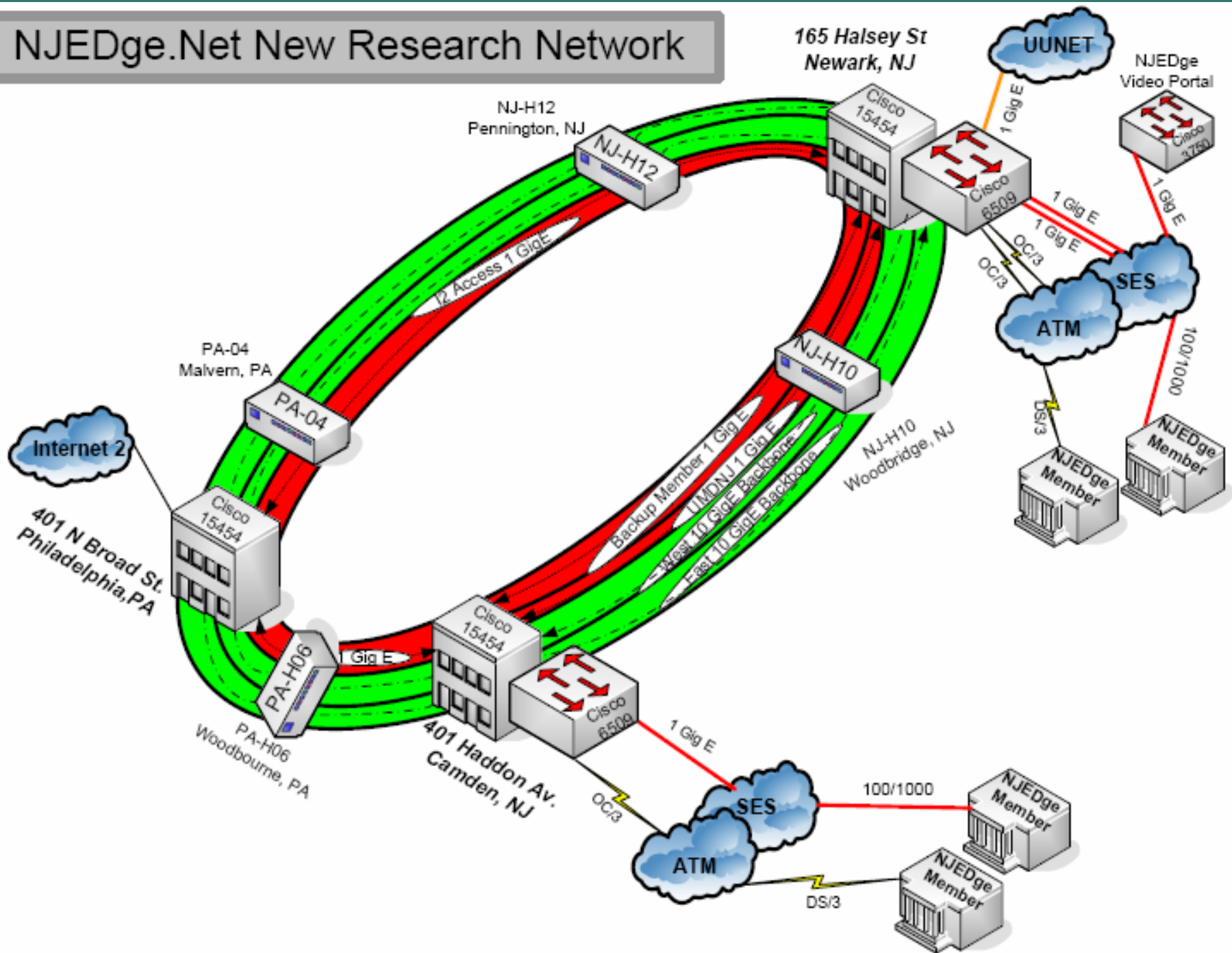
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## NJEDge.Net

- Member bandwidth and hosting needs
- Scalable authentication
- Moving to a new platform and locations
- Providing greater bandwidth
- Offering additional services

# NJEDGE.Net New Research Network





## NJVID Digital Video Initiative

- Growing importance of on-demand video in online education is now widely recognized
- VALE, the NJ Digital Highway and Library consortia have identified the need to provide video resources and services statewide as an important strategic initiative
- William Paterson (VALE), Rutgers Libraries, and NJEDge are partnering on an IMLS Grant to provide funding for the initiative



## Instructional Advantages of VoD

- Access to content any time, any place
- Easily construct clips to meet instructional needs
- Easily integrated with Sakai, Blackboard/WebCT, etc.
- More titles can be purchased with digital delivery rights
- Online students can access the same content as classroom students
- Increased bandwidth and infrastructure is now stable enough to provide quality video-on-demand



## NJVID Digital Video Repository

- The portal repository will support:
  - “Lectures-on-Demand” with a clickable “table of contents” for K-20 educators
  - Licensed commercial academic videos from companies such as Films Media Group
  - Locally owned and developed academic video
  - Videos searchable through metadata tags
  - VoDcasting and Podcasting delivery options
  - Statewide authentication and authorization



## NJVID Digital Video Repository

- The architecture has 5 components:
  - Digital video storage and streaming at NJEdge
  - Fedora repository architecture for housing and managing digital objects
  - Workflow Management System
  - Shibboleth plus LDAP
  - Web portal with intuitive user services

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The New Jersey Digital Highway - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.njdigitalhighway.org/

## NJ New Jersey Digital Highway

DH — Where History, Culture, and Learning Merge —

Information for:

- Everyone
- Educators
- Students
- Librarians & Curators

Home  
Site Search  
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About

The New Jersey Digital Highway is your "one stop shop" for New Jersey history and culture, from the collections of NJ libraries, museums, archives and historical societies.

Quick Search [Browse NJDH](#)

All | Text | Images | Audio | Video

[Search NJDH](#)  
[Advanced Search](#)

You are searching all content.

**NJDH News** [RSS](#)

Working to Make NJDH Better!

**Thank you for evaluating the New Jersey Digital Highway.**

The NJDH evaluation is now closed.

[NJDH Evaluation Update](#)  
[read more >>](#)

**History Events Calendar**

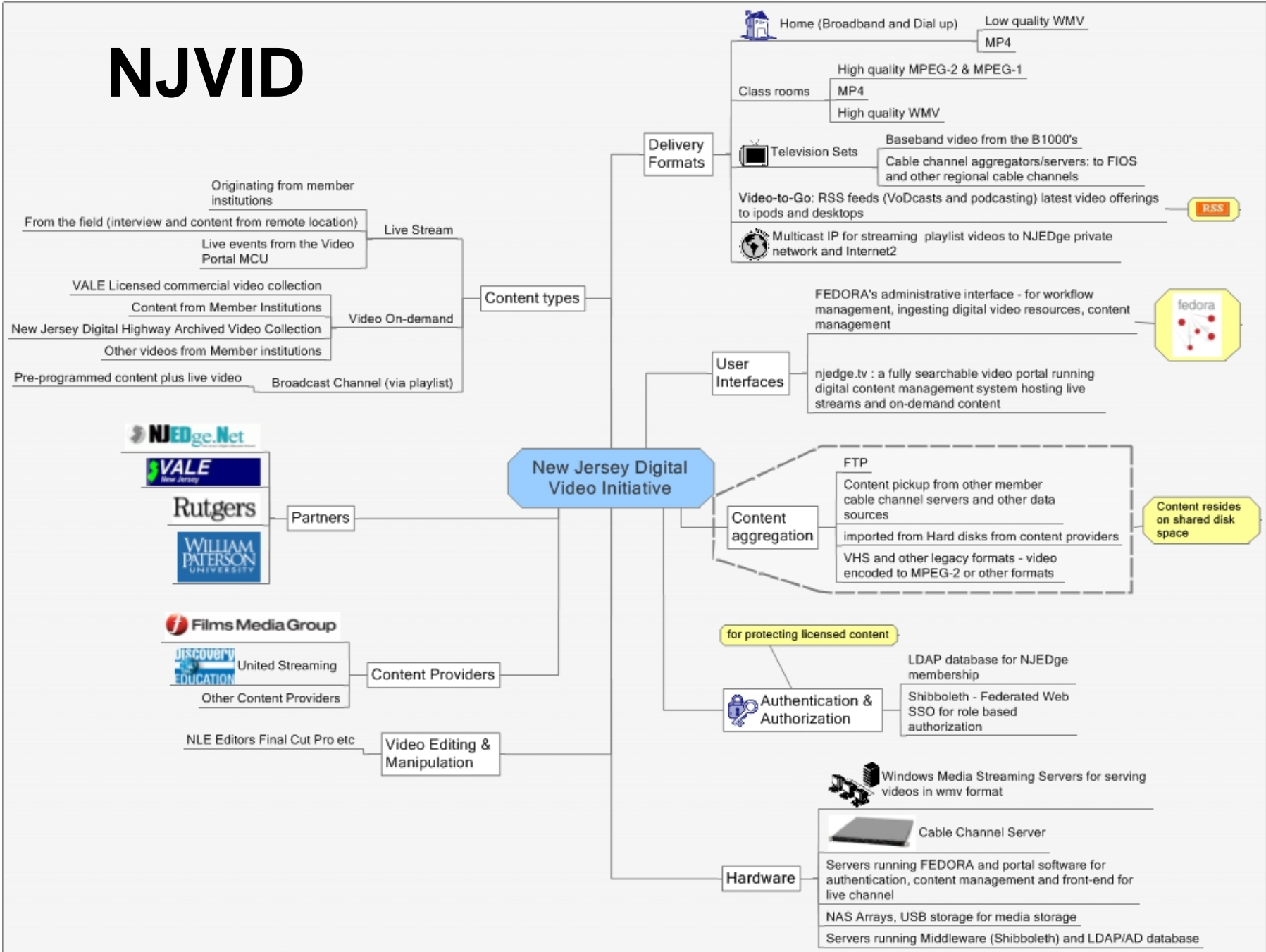
**Interest Areas for Different Audiences:**



## Statewide Channel

- The portal repository will support:
  - Programming for a statewide video channel
  - 23 members program CATV Educational Access channels
  - Verizon FIOS will provide a channel
  - Multicast permits on-net simulcast
  - Members provide programs
  - Members create daily schedules

# NJVID



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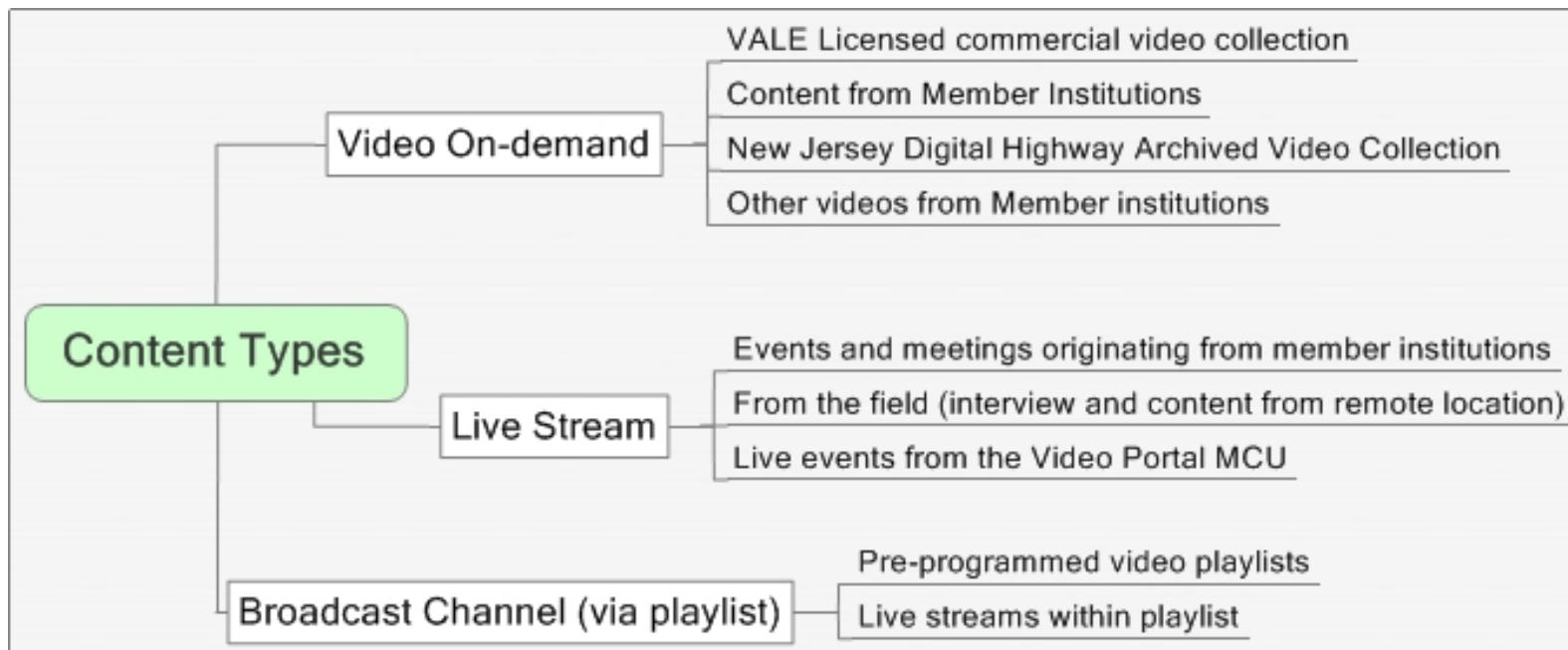
## Partners



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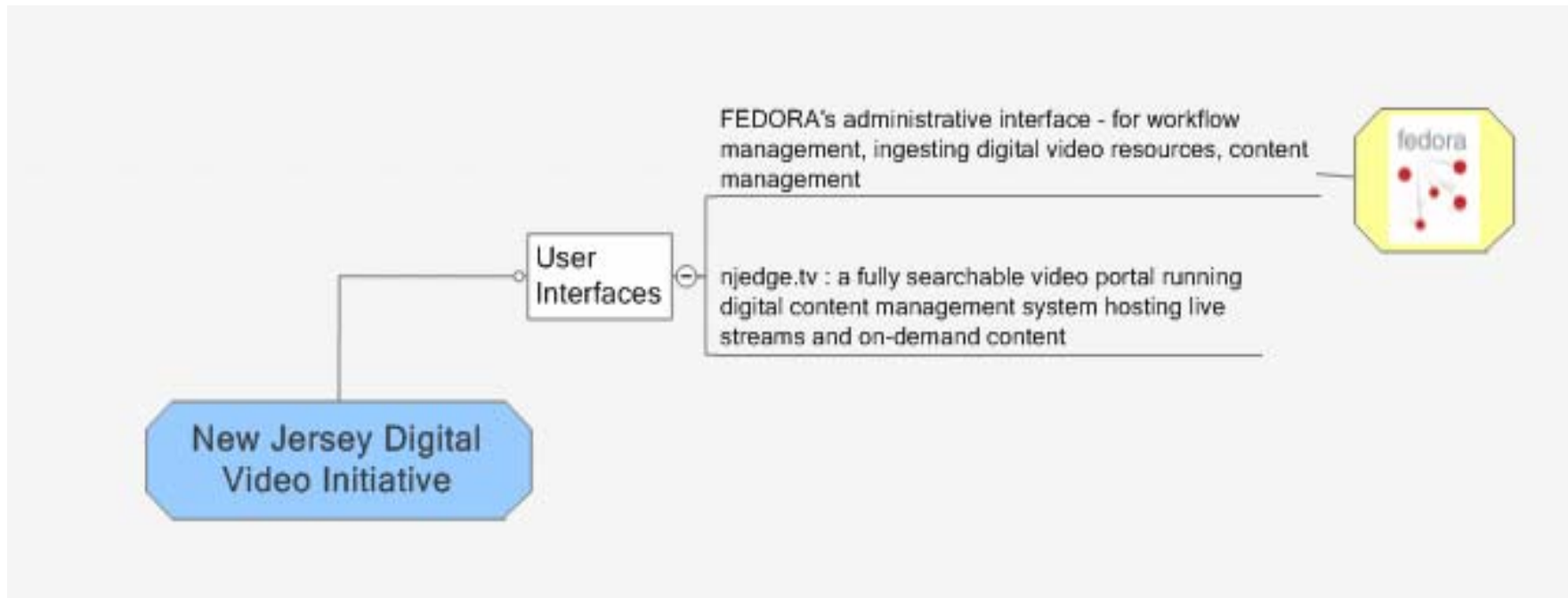
## Content Types



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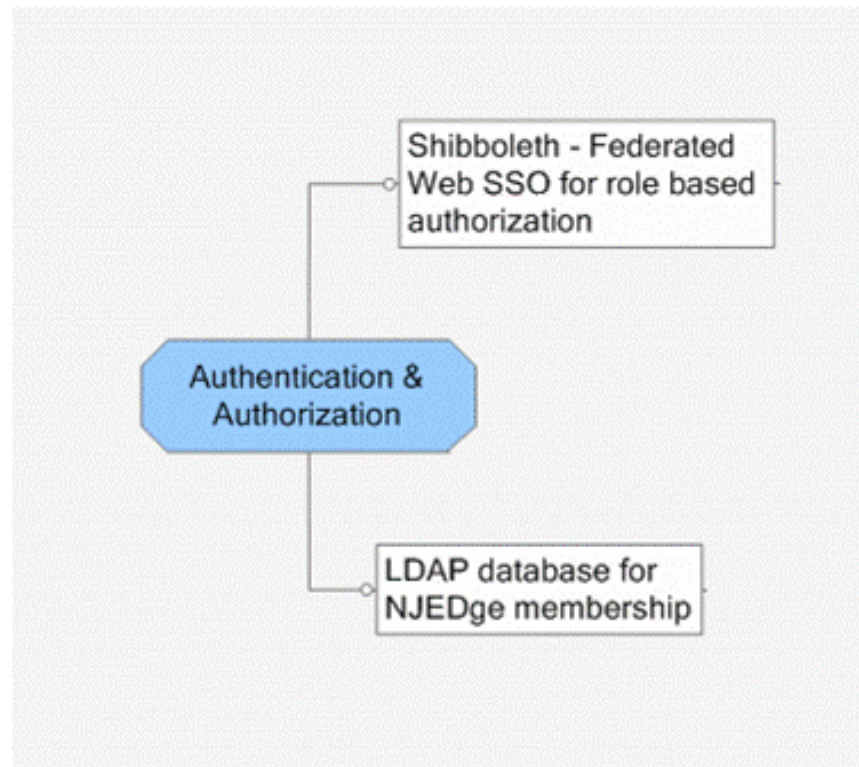
## User Interfaces



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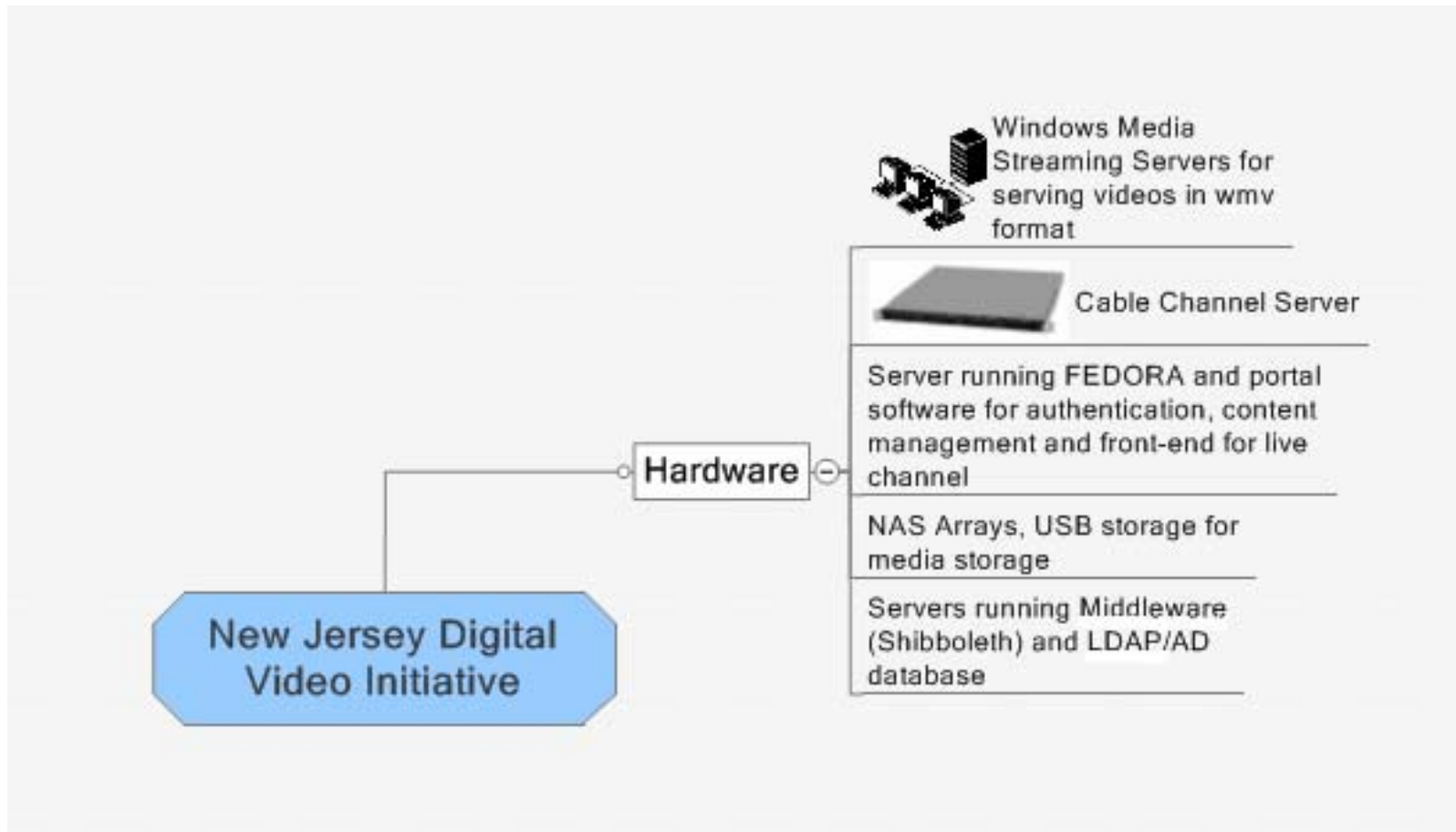
## Authentication & Authorization



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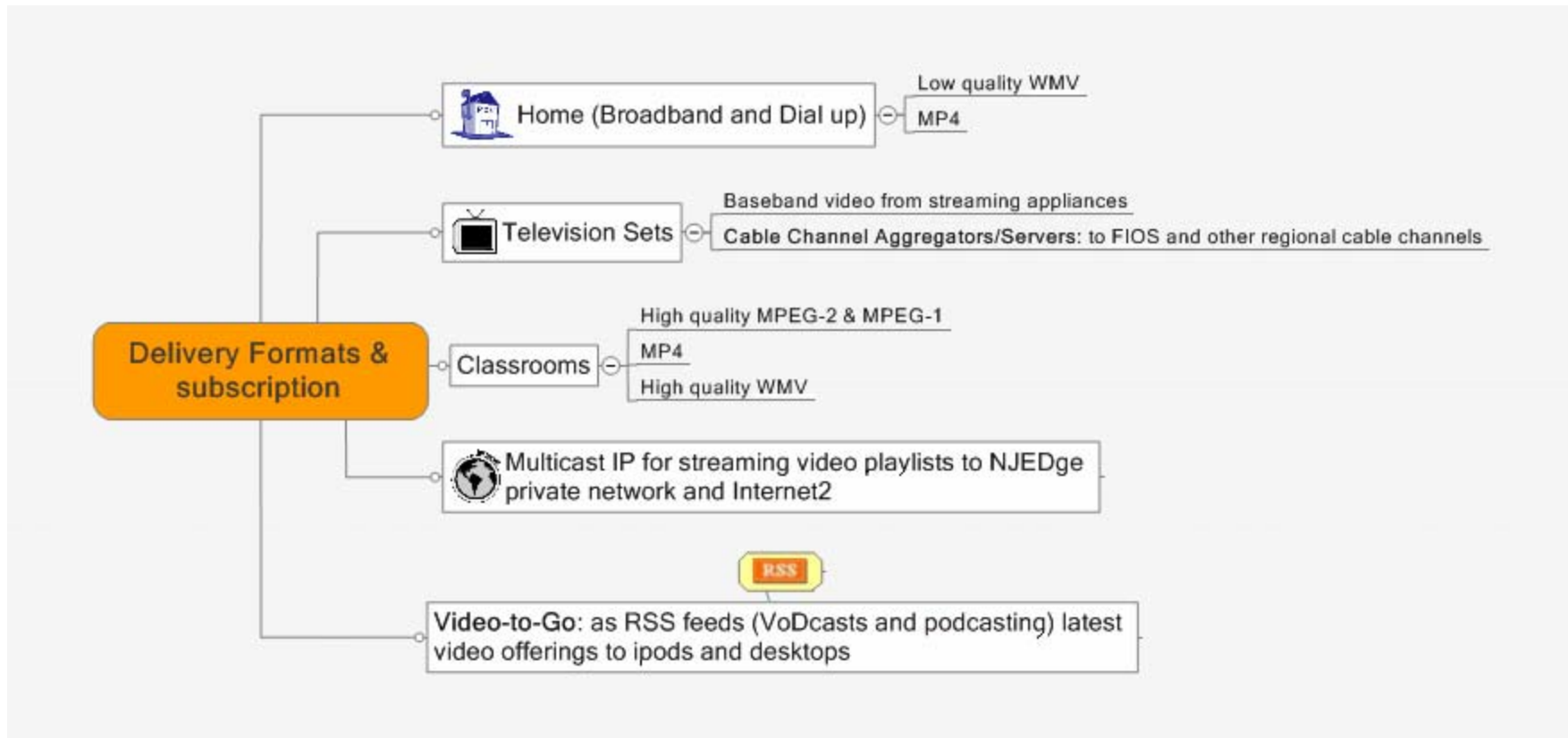
## Hardware



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## Subscription & Delivery



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## Content aggregation

