



Scheduling and Content Management on a Codian MCU and IP-VCR



Agenda

- Northwestern Videoconferencing Infrastructure
- RYO Codian Scheduling Software
- Branding Codian Streaming Web Pages
- Content Management for Archived Codian Files and a Tandberg TCS

Northwestern Videoconferencing Infrastructure

- Codian MCU
 - 40 port standard definition
 - Live streaming of audio/video/content
- Codian IP-VCR
 - 5 simultaneous recordings
 - Live or on-demand streaming
 - Audio, video, and/or content
 - RealVideo, Windows Media, or QuickTime
 - Number of streams limited
 - ~50 hours of recording space

Northwestern Videoconferencing Infrastructure Continued

- Radvision Gatekeeper and Gateway
- Codian now owned by Tandberg

SCHEDULING SOFTWARE



<http://www.it.northwestern.edu/videoconferencing/index.html>

Scheduling System

- User accessible Web pages
 - Tutorial information
 - Room availability
 - Directory information
 - Forms to drive automated scheduling of MCU
- Northwestern written code
 - Written in Cold Fusion
 - Access Database
 - Drives Codian API to schedule using XML

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Additional Information

[Technical Docs](#)[Get Started](#)

Technical Documents for Advanced Users



[Understanding Data Sharing](#)

Sharing data in a videoconference is frequently crucial to the successful outcome of the conference.

[Network Address Translation and Firewalls](#)

This is a detailed technical description of the use of network address translation devices and firewalls in videoconferencing.

[Understanding Addressing Issues](#)

This describes the addressing scheme used at Northwestern and elsewhere for dialing videoconferencing units.

[Access Grid Videoconferencing](#)

This describes an immersive videoconferencing environment that is widely used for research collaboration.

Additional Information

- ◆ [My Conferences](#) - Schedule and manage videoconferences

Last Updated: 26 September 2007

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DIRECTORY LOOKUP

Search

Query :

Submit

Enter a valid user name. Wild cards can be used (e.g. *Smith). The search will return all Northwestern users that match the search criteria. Records for users that do not have H.323 information available will have N/A indicated.

DIRECTORY LOOKUP

Search

Query :

Enter a valid user name. Wild cards can be used (e.g. *Smith). The search will return all Northwestern users that match the search criteria. Records for users that do not have H.323 information available will have N/A indicated.

Larry William Amiot

Department: IT Academic Technologies

Address: UNIVERSITY LIBRARY

2 East

EVB303

Email: amiot@northwestern.edu

Telephone: +1 847 467 6885

Video address: [Click here to retrieve the video address](#)



DIRECTORY LOOKUP



LOOKUP BY NETID

End Point Type: Terminal

Description: My Argonne (ANL) Viewstation

H.323 Alias: amiot@anl.gov

H.323 In Zone Extension: 125432

H.323 Out of Zone Extension: 0011169125432

Gatekeeper Address: gk.northwestern.edu

H.323 Terminal IP Address: 146.139.96.142

End Point Type: Terminal

Description: My Northwestern (NU) Viewstation

H.323 Alias: amiot@northwestern.edu

H.323 In Zone Extension: 176885

H.323 Out of Zone Extension: 0011169176885

Gatekeeper Address: gk.northwestern.edu

H.323 Terminal IP Address: 129.105.110.18



MODIFY DIRECTORY

Your Current H.323 Record(s)

[My Argonne \(ANL\) Viewstation](#)

[My Northwestern \(NU\) Viewstation](#)

Add an H.323 Record

[Help](#)

H.323 Alias:	<input type="text"/> <i>e.g. j-doe.northwestern.viewstation</i>
H.323 Extension:	<input type="text"/> <i>e.g. 171234</i>
H.323 Terminal IP Address:	<input type="text"/> <i>e.g. 129.105.123.123</i>
Description:	<input type="text"/> <i>e.g. "My ViewStation at Northwestern"</i>
	<input type="button" value="Add Record"/>

The H.323 information contained in these records will be made available using the directory search for "people" that is accessible from Northwestern's Home Page. if you set the "Off Campus" field in your Directory Information to full, both off-site and campus people will be able to see the link to your video information. If your directory information is not set to "full" ("partial" or "no"), neither off-site or on-campus users will be able to see the link to your video information.

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MY CONFERENCES

[View Past Conferences](#)

[+Add a Conference](#)

Conf ID	Conference Name	Date and Time	Sites Info	MCU Info
6247	INTERNET2 DIGITAL VIDEO INITIATIVE 	Wed, 04/23/08 07:45 AM to 09:15 AM		Total Sites: 4 50025432 07:15 AM-09:45 AM



PAST CONFERENCES

My Conferences

[+Add a Conference](#)

QATAR	Wed, 02/27/08	07:00 AM to 08:30 AM
TEST STREAMING	Thu, 02/14/08	03:30 PM to 04:30 PM
QATAR CONFERENCE	Thu, 02/07/08	06:45 AM to 08:45 AM
QATAR TEST CONFERENCE	Tue, 02/05/08	07:00 AM to 09:30 AM
VIDEOCONFERENCE WITH QATAR	Wed, 01/30/08	06:45 AM to 08:30 AM
QATAR TEST	Tue, 01/29/08	07:00 AM to 08:30 AM
QATAR TEST	Mon, 01/28/08	01:00 PM to 02:00 PM
TEST	Tue, 01/15/08	05:00 PM to 06:00 PM
TEST	Thu, 01/03/08	01:30 PM to 01:45 PM
MERIT PRESENTATION	Tue, 11/20/07	01:00 PM to 03:30 PM
TEST11	Tue, 09/25/07	11:30 AM to 12:00 PM





ADD A CONFERENCE

My Conferences **View Past Conferences**

CONFERENCE INFORMATION:

Conference Name:

Conference Purpose:

Do you have a computer presentation?

Description of the conference:

Participants' Email Addresses(Optional):

Press ENTER after each e-mail address

ENTER THE DATE AND TIME OF THE CONFERENCE:

Start Date:

(format: mm/dd/yy)



ENTER THE DATE AND TIME OF THE CONFERENCE:

Start Date:
(format: mm/dd/yy)

04/23/08



Start Time:

(US central time)

Duration:

Repeated Conference?

< Apr 2008 >

M	T	W	T	F	S	S
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Today: 03/19/08

ROOM RESERVATIONS:

Do you need to reserve a room? Yes

Select "No" above to remove these settings from Room Reservations

You have indicated that you plan on using one of the NUIT Supported Videoconference rooms. Please select the room from the list below. If the room is booked, you will be notified when you submit your request.

[View NUIT Support Room Schedule.](#)

Chicago Wieboldt 421 (24 Seats)

MULTI-SITE RESERVATION:

When you are conferencing with more than two sites, or someone needs to use telephone to call to join your conference, or you need to enable web streaming for your videoconference, you need to reserve the Northwestern videoconferencing infrastructure (MCU).

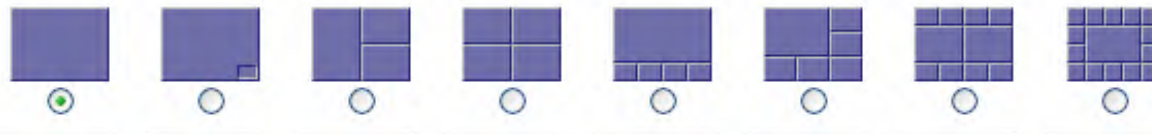
Would you like to reserve Northwestern MCU? Yes

Select "No" above to remove these settings from Multi-Site Reservation

Total Number of Videoconferencing Sites:

Total Number of Telephone Connections: 0

Screen Layout



ADVANCED OPTIONS:

Stream your videoconference Live (all or some sessions)? [More info.](#) No

Enable security PIN for your conference? No

Do you want to specify your multi-site dial-in number? No



BRANDING CODIAN STREAMING WEB PAGES



Play back a recording

Recording ID

PIN

Media Highest rate using QuickTime

Prefer multicast

Play audio and main video

Video size Auto

View content channel

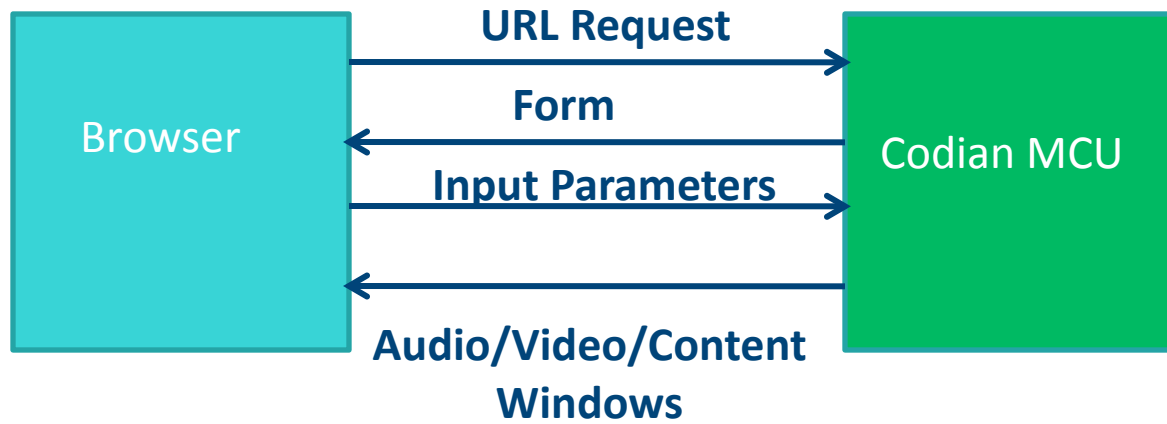
Content size Medium

Public folders

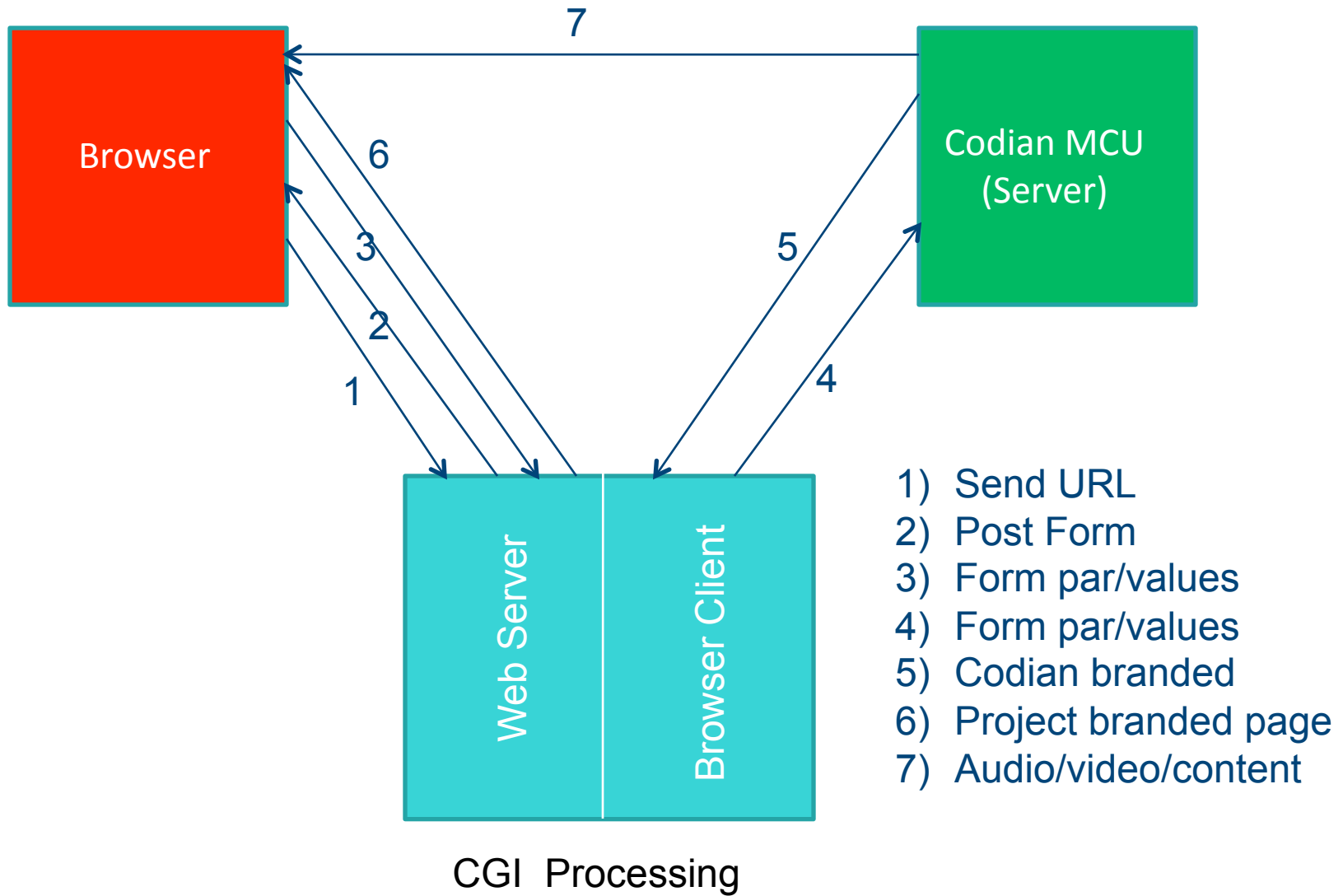
- [Top-level folder](#)
- [Factory Physics II - Winter '08](#)
- [NCLT Seminar Series](#)
- [Oncofertility](#)
- [QATAR - NFS](#)

[Click here to log in](#)

Standard Codian Web page Scenario



Branded Web Page Scenario





the
Oncofertility
Consortium

HOME ABOUT PRIMARY CENTERS PROJECTS LIBRARY EVENTS FOR PATIENTS FOR NPC PARTNERS

ONCOFERTILITY TEST WEBCAST

Please sign in to view the test webcast

Sign-in name

Stream this conference



SOME THOUGHTS ON CONTENT MANAGEMENT

Content Management

- How do you get achieved audio/video/content off of the Codian IP-VCR
 - Download from the IP-VCR to your computer in a Codian proprietary format
 - Run “codian_to_mpeg_format.bat”
 - Format the size, position, and existence of video and/or content
 - Edit (trim) the resulting MPEG1 file and save as appropriate type (MOV, MPEG4, WM, RealVideo, etc)
 - Put on server/deliver to user

Content Automation

- Schedule the session; include recording
- Write the file to NFS from the IP-VCR
- Periodically check to see if the file has been written
- Allow the users to select:
 - Type of output (encoding/un-encoded MPEG1)
 - Trimming or not
- Tell user when complete

Tandberg TCS Complementing the Codian IP-VCR

TCS

- Windows Platform
- Content server with H.323 recording added
- 5 live recordings & 2 live streams
- Large aggregate number (100s) of WM streams native- supports links to QTSS or RealVideo servers

IP-VCR

- Linux Platform
- H.323 recorder with streaming added
- Up to 10 live recorded and/or live streams
- Limited aggregate number (50 to 75) of live or archived streams- stream as WM, QT, or RealVideo

Tandberg TCS Complementing the Codian IP-VCR

TCS

- Recordings from MCU only
- 250 GB disk- no NFS
- Content encoded in video stream
- Archives streamed in pre-encoded format
- Can archive in various encodings and formats

IP-VCR

- Recordings & playback from MCU or Client
- 57 GB of disk plus NFS
- High resolution (1024x768) JPEG content
- Archives streamed with on-the-fly encoding
- Archived in proprietary Codian format- can be converted to MPEG1

Tandberg/Codian Evaluation Configuration

