GVSU ITV
Display System
Reconfiguration Proposal
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Request for Proposal
ITV Display System Reconfiguration

Statement of Need
Grand Valley State University (GVSU) is requesting competitive written proposals from qualified organizations for the reconfiguration of the display systems in two existing ITV classrooms. One to be located in GVSU’s Cook-DeVos Center for Health Sciences, Room 145 and the other in Northwestern Michigan College’s (NMC) University Center, Room 09. Each system will integrate with the existing classroom ITV equipment as provided by GVSU and have the capability to connect with each other as well as with the outside world via an H.323 telepresence codec.

By issuing this RFP and collecting responses for an ITV Display System Reconfiguration, GVSU is not under any obligation to accept proposals or to proceed with the purchase of the equipment and services requested, and reserves the right to reject any or all proposals. Questions concerning the RFP should be directed to John Klein, Associate Director of Academic Services.

Installation
• The vendor is to act as system integrator and equipment installer for all of the equipment needed to complete the configuration of the proposed display system. Installation to include all necessary hardware, cabling, connectors and miscellaneous components required to complete a fully functioning system, including any items which are not listed.

• The vendor will team with GVSU to ensure that all newly installed equipment will fully integrate with all of the owner supplied classroom ITV equipment.

• All installed cabling should be clearly labeled, include an appropriate service loop and must be properly grounded where applicable.

• The vendor will ensure that the installation is performed in accordance with applicable specifications, codes and standards and to insure that all work performed is in accordance with the requirements of all local codes and regulations of the authorities having jurisdiction.

• The vendor shall not disturb any cabling, wiring, equipment, miscellaneous hardware and work installed by others unless it is necessary for the performance of the vendor’s work. If it is necessary, any equipment or work disturbed shall be coordinated with the affected provider in advance and then restored to the same complete and functioning condition as it was in before the disturbance.

Maintenance Agreement
• Vendor shall provide pricing options on all manufacturer service and maintenance requirements as well as available vendor provided basic, full and enhanced level maintenance service agreements as a yearly cost for 1, 3 and 5 years.
Warranty
- Vendor shall identify their warranty, manufacturer’s warranty, and system integration warranty.

Documentation
- Vendor shall provide a complete set of operator’s manuals, as built drawings with clearly identified cabling and equipment, and specifications by location.

Electrical and Network Requirements
- Vendor shall provide any necessary technical requirements including electrical and network requirements to support the proposed systems.

Training
- Vendor shall provide training on operation and basic maintenance procedures for the buyer’s designated personnel.

Testing and Acceptance
- All sites must be fully tested and operable prior to acceptance.

Pricing and Payment Schedule
- All work to be performed in accordance with State of Michigan prevailing wage rates.
- Vendor shall identify pricing by site.
- Vendor shall propose a payment schedule.
- If there are any cost saving measures or alternative equipment options that will allow for improvements in the design and/or allow for future expansion, then those recommendations are encouraged.

Tentative Completion Schedule

<table>
<thead>
<tr>
<th>Work Performed</th>
<th>Date Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vendor Meeting and Proposal Review</td>
<td>Wednesday, 7/8/2015, 10am-12pm</td>
</tr>
<tr>
<td>Proposal Due</td>
<td>Friday, 7/24/2015, 5pm</td>
</tr>
<tr>
<td>Bid Awarded</td>
<td>Friday, 7/31/2015, 5pm</td>
</tr>
<tr>
<td>Equipment Ordered</td>
<td>Monday, 8/3/2015 – Friday, 8/14/2015</td>
</tr>
<tr>
<td>Installation</td>
<td>Monday, 8/17/2015 – Friday, 8/21/2015</td>
</tr>
<tr>
<td>Testing</td>
<td>Monday, 8/24/2015 – Wednesday, 8/26/2015</td>
</tr>
</tbody>
</table>

NOTE: Evening and weekend work may be required to complete the installation and testing as described in the tentative schedule above.
### Abbreviation Key:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Speaker</td>
<td>ACT SPK</td>
</tr>
<tr>
<td>Additional Site</td>
<td>SITE 3</td>
</tr>
<tr>
<td>CHS Instructor Camera</td>
<td>CHS INST, CI</td>
</tr>
<tr>
<td>CHS Student Camera #1</td>
<td>CHS ST1, CS1</td>
</tr>
<tr>
<td>CHS Student Camera #2</td>
<td>CHS ST2, CS2</td>
</tr>
<tr>
<td>Content Recorder</td>
<td>REC</td>
</tr>
<tr>
<td>NMC Instructor Camera</td>
<td>NMC INST, NI</td>
</tr>
<tr>
<td>NMC Student Camera</td>
<td>NMC ST, NS</td>
</tr>
<tr>
<td>Source Content</td>
<td>CONTENT</td>
</tr>
<tr>
<td>To be Determined</td>
<td>TBD</td>
</tr>
</tbody>
</table>

NOTE: The abbreviations listed are strictly used for the purpose of designating the various display sources in the current and proposed system configurations.
CHS 145 Current ITV Configuration

CHS 145 - Current Equipment

Codec
1- Cisco C90 Codec with 4-Way Multipoint option
1- Cisco TC Console Display Configuration software

Sources
1- Instructor Camera (back of room)
2- Student Camera (front of room)
1- Content Feed (instructor’s computer, doc cam, etc.)

Displays
Front of Room
  2- 60” Large Flat Panel Display (north and south)
  2- Large Screen LCD Projector (north and south)
Instructor’s Workstation
  2- 21” Flat Panel Display (codec and content)
Back of Room
  1- 70” Large Flat Panel Display
CHS 145 - Current Display Configurations

CHS 145 No Sites Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays and Instructor Codec Display</th>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
</tbody>
</table>

CHS 145 One Site Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Large LCD Projectors and Instructor Content Display</th>
<th>Camera Stream to Remote Site</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
</tbody>
</table>

NOTE: CHS 145 plus one other site (NMC 09).
CHS 145 - Current Display Configurations - cont.

CHS 145 Two Sites Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram of All Large Flat Panel Displays" /></td>
<td><img src="image2" alt="Diagram of Instructor Codec Display" /></td>
</tr>
<tr>
<td>NMC INST</td>
<td>CI</td>
</tr>
<tr>
<td>NMC ST</td>
<td>CS2</td>
</tr>
<tr>
<td>REC</td>
<td>CS1</td>
</tr>
<tr>
<td></td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>NS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Large LCD Projectors and Instructor Content Display</th>
<th>Camera Stream to Remote Site</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram of All Large LCD Projectors and Instructor Content Display" /></td>
<td><img src="image4" alt="Diagram of Camera Stream to Remote Site" /></td>
</tr>
<tr>
<td>CONTENT</td>
<td>CHS INST</td>
</tr>
<tr>
<td></td>
<td>CHS ST2</td>
</tr>
<tr>
<td></td>
<td>CHS ST1</td>
</tr>
</tbody>
</table>

NOTE: CHS 145 plus two other sites (NMC 09 and Content Recorder). Content Recorder must connect as another site in the conference.
CHS 145 - Current Display Configurations - cont.

CHS 145 Three Sites Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Display Diagram" /></td>
<td><img src="image2" alt="Codec Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Large LCD Projectors and Instructor Content Display</th>
<th>Camera Stream to Remote Site</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Display Diagram" /></td>
<td><img src="image4" alt="Camera Stream Diagram" /></td>
</tr>
</tbody>
</table>

NOTE: CHS 145 plus three other sites (NMC 09, Content Recorder and third site).
CHS 145 Proposed ITV Configuration

CHS 145 - Proposed Equipment

Codec
1- Cisco C90 Codec with 4-Way Multipoint option
1- Cisco TC Console Display Configuration software

Sources
1- Instructor Camera (back of room)
2- Student Camera (front of room)
1- Content Feed (instructor’s computer, doc cam, etc.)

Displays
Front of Room
2- 60” Large Flat Panel Display (north and south)
2- Large Screen LCD Projector (north and south)
Instructor’s Workstation
2- 21” Flat Panel Display (codec and content)
Back of Room
1- 70” Large Flat Panel Display
ADD: 1-70” Large Flat Panel Display

NOTE: No additional displays are or should be required.
CHS 145 - Proposed Display Configurations

CHS 145 No Sites Connected (proposed)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="all_large_flats.png" alt="Image" /></td>
<td><img src="instructor_codec.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="all_large_lcd.png" alt="Image" /></td>
</tr>
</tbody>
</table>
CHS 145 - Proposed Display Configurations - cont.

**CHS 145 One Site Connected (proposed)**

<table>
<thead>
<tr>
<th>Front of Room - Flat Panel Display Left</th>
<th>Front of Room - Flat Panel Display Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Display Diagram" /></td>
<td><img src="image2" alt="Display Diagram" /></td>
</tr>
<tr>
<td>NMC ST</td>
<td>NMC INST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Back of Room – Flat Panel Display Left</th>
<th>Back of Room – Flat Panel Display Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Display Diagram" /></td>
<td><img src="image4" alt="Display Diagram" /></td>
</tr>
<tr>
<td>NMC ST</td>
<td>NMC INST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instructor Codec Display</th>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Display Diagram" /></td>
<td><img src="image6" alt="Display Diagram" /></td>
</tr>
<tr>
<td>CHS INST</td>
<td>CONTENT</td>
</tr>
<tr>
<td>CHS ST1</td>
<td></td>
</tr>
<tr>
<td>CHS ST2</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** CHS 145 plus one other site (NMC 09).
CHS 145 - Proposed Display Configurations - cont.

**CHS 145 Two Sites Connected (proposed)**

Front of Room - Flat Panel Display Left  
![Image](image1.png)  
NMC ST

Front of Room - Flat Panel Display Right  
![Image](image2.png)  
NMC INST or ACT SPK

Back of Room – Flat Panel Display Left  
![Image](image3.png)  
NMC ST

Back of Room – Flat Panel Display Right  
![Image](image4.png)  
NMC INST or ACT SPK

Instructor Codec Display  
![Image](image5.png)  
CHS INST  
CHS ST2  
CHS ST1  
SITE 1  
SITE 2

All Large LCD Projectors and Instructor Content Display  
![Image](image6.png)  
CONTENT

**NOTE:** CHS 145 plus two other sites (NMC 09 and Content Recorder). Content Recorder must connect as another site in the conference.

Active Speaker display required in order to accommodate connections other than NMC and/or the Content Recorder.
CHS 145 - Proposed Display Configurations - cont.

CHS 145 Three Sites Connected (proposed)

<table>
<thead>
<tr>
<th>Front of Room - Flat Panel Display Left</th>
<th>Front of Room - Flat Panel Display Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Front of Room - Flat Panel Display Left" /></td>
<td><img src="image2" alt="Front of Room - Flat Panel Display Right" /></td>
</tr>
<tr>
<td>NMC ST</td>
<td>NMC INST or ACT SPK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Back of Room – Flat Panel Display Left</th>
<th>Back of Room - Flat Panel Display Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Back of Room – Flat Panel Display Left" /></td>
<td><img src="image4" alt="Back of Room - Flat Panel Display Right" /></td>
</tr>
<tr>
<td>NMC ST</td>
<td>NMC INST or ACT SPK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instructor Codec Display</th>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Instructor Codec Display" /></td>
<td><img src="image6" alt="All Large LCD Projectors and Instructor Content Display" /></td>
</tr>
<tr>
<td>CHS INST</td>
<td>CHS ST2</td>
</tr>
<tr>
<td>SITE 1</td>
<td>SITE 2</td>
</tr>
<tr>
<td>CONTENT</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: CHS 145 plus three other sites (NMC 09, Content Recorder and third site).

Active Speaker display required in order to accommodate connections other than CHS and/or the Content Recorder.
NMC 09 Current ITV Configuration

NMC 09 - Current Equipment

Codec
1- Cisco C90 Codec with 4-Way Multipoint option
1- Cisco TC Console Display Configuration software

Sources
1- Instructor Camera (back of room)
2- Student Camera (front of room)
1- Content Feed (instructor’s computer, doc cam, etc.)

Displays
Front of Room
1- 60” Large Flat Panel Display
1- Large Screen LCD Projector
Instructor’s Workstation
2- 21” Flat Panel Display
Back of Room
1- 60” Large Flat Panel Display
### NMC 09 - Current Display Configurations

#### NMC 09 No Sites Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays and Instructor Codec Display</th>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>NMC INST</td>
<td>CONTENT</td>
</tr>
<tr>
<td>NS</td>
<td></td>
</tr>
</tbody>
</table>

#### NMC 09 One Site Connected (current)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td>CHS INST</td>
<td>CHS INST</td>
</tr>
<tr>
<td>CHS ST2</td>
<td>CHS ST1</td>
</tr>
<tr>
<td>CHS ST2</td>
<td>CHS ST1</td>
</tr>
<tr>
<td>All Large LCD Projectors and Instructor Content Display</td>
<td>Camera Stream to Remote Site</td>
</tr>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
<tr>
<td>CONTENT</td>
<td>NMC INST</td>
</tr>
<tr>
<td>NMC ST</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** NMC 09 plus one other site (CHS 145).
NMC 09 - Current Display Configurations - cont.

NMC 09 Two Sites Connected (current)

- All Large Flat Panel Displays
  - CHS INST
  - CHS ST2
  - CHS ST1

- Instructor Codec Display
  - NI
  - NS
  - REC
  - CHS INST
  - CHS ST2
  - CHS ST3

- All Large LCD Projectors and Instructor Content Display
  - CONTENT

- Camera Stream to Remote Site
  - NMC INST
  - NMC ST
  - REC

NOTE: NMC 09 plus two other sites (CHS 145 and Content Recorder). Content Recorder must connect as another site in the conference.
NMC 09 - Current Display Configurations - cont.

NMC 09 Three Sites Connected (current)

**All Large Flat Panel Displays**
- CHS
- REC
- SITE 3

**Instructor Codec Display**
- CHS
- REC
- SITE 3
- NMC INST

**All Large LCD Projectors and Instructor Content Display**
- CONTENT

**Camera Stream to Remote Site**
- ACT SPK
- NMC INST
- NMC ST

NOTE: NMC 09 plus three other sites (CHS 145, Content Recorder and third site).
NMC 09 Proposed ITV Configuration

NMC 09 - Proposed Equipment

Codec
1- Cisco C90 Codec with 4-Way Multipoint option
1- Cisco TC Console Display Configuration software

Sources
1- Instructor Camera (back of room)
2- Student Camera (front of room)
1- Content Feed (instructor’s computer, doc cam, etc.)

Displays
Front of Room
1- 60” Large Flat Panel Display
   ADD: 1-60” Large Flat Panel Display
1- Large Screen LCD Projector
Instructor’s Workstation
2- 21” Flat Panel Display
Back of Room
1- 60” Large Flat Panel Display
   ADD: 1-60” Large Flat Panel Display
NMC 09 - Proposed Display Configurations

NMC 09 No Sites Connected (proposed)

<table>
<thead>
<tr>
<th>All Large Flat Panel Displays</th>
<th>Instructor Codec Display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NMC INST</td>
</tr>
<tr>
<td></td>
<td>NMC ST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Large LCD Projectors and Instructor Content Display</th>
</tr>
</thead>
</table>
NMC 09 - Proposed Display Configurations - cont.

NMC 09 One Site Connected (proposed)

Front of Room - Flat Panel Display Left

Front of Room - Flat Panel Display Right

Back of Room - Flat Panel Display Left

Back of Room - Flat Panel Display Right

Instructor Codec Display

All Large LCD Projectors and Instructor Content Display

NOTE: NMC 09 plus one other site (CHS 145).
NMC 09 - Proposed Display Configurations - cont.

NMC 09 Two Site Connected (proposed)

Front of Room - Flat Panel Display Left

<table>
<thead>
<tr>
<th>CHS ST2</th>
<th>CHS ST1</th>
</tr>
</thead>
</table>

Front of Room - Flat Panel Display Right

<table>
<thead>
<tr>
<th>CHS INST or ACT SPK</th>
</tr>
</thead>
</table>

Back of Room - Flat Panel Display Left

<table>
<thead>
<tr>
<th>CHS ST2</th>
</tr>
</thead>
</table>

Back of Room - Flat Panel Display Right

<table>
<thead>
<tr>
<th>CHS ST1</th>
</tr>
</thead>
</table>

Instructor Codec Display

<table>
<thead>
<tr>
<th>NMC INST</th>
<th>NMC ST</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SITE 1</th>
<th>SITE 2</th>
</tr>
</thead>
</table>

All Large LCD Projectors and Instructor Content Display

<table>
<thead>
<tr>
<th>CONTENT</th>
</tr>
</thead>
</table>

NOTE: NMC 09 plus two other sites (CHS 145 and Content Recorder). Content Recorder must connect as another site in the conference.

Active Speaker display required in order to accommodate connections other than CHS and/or the Content Recorder.
NMC 09 - Proposed Display Configurations - cont.

NMC 09 Three Site Connected (proposed)

Front of Room - Flat Panel Display Left

Front of Room - Flat Panel Display Right

Back of Room - Flat Panel Display Left

Back of Room - Flat Panel Display Right

Instructor Codec Display

All Large LCD Projectors and Instructor Content Display

NOTE: NMC 09 plus three other sites (CHS 145, Content Recorder and third site).

Active Speaker display required in order to accommodate connections other than CHS and/or the Content Recorder.