

ADDENDUM # 2 TO RFP # 0057961

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY (Virginia Tech)
Procurement Department (MC 0333)
North End Center, Suite 2100
300 Turner Street NW
Blacksburg, Virginia 24061

October 15, 2018	October 25, 2018 @ 3:00pm
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ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO: Reed Nagel Team Lead for Facilities Support
E-MAIL ADDRESS: nagelr@vt.edu TELEPHONE NUMBER (540) 231-5240
FAX NUMBER (540) 231-9628 AFTER HOUR MESSAGES (540) 231-6221

Audio-Visual Design Services and Deployment of Technology for Virginia Tech Research Center

1. Please find the attached responses to submitted RFI's as attachment A.
2. All other terms, conditions and descriptions remain the same.
3. The due date and hour is changed from **October 19, 2018 @ 3:00pm** TO **October 25, 2018**

I acknowledge that I have read and understand this addendum in its entirety.

Signature

Date

ATTACHEMENT A

GENERAL:

1. Please confirm what municipality if any the SWaM must be certified in and what certificates are required from said municipality?

The SWaM certification must be obtained in Virginia. More information can be obtained on the SBSO website.

2. Please confirm that all walls that AV equipment such as displays, cameras and AV plates must be mounted on will be standard drywall. There will be no walls with wallpaper, fabric or wood paneling, etc?

Some walls may have specialty paints or wallcovering. Most walls are standard drywall. We can provide a sheet highlighting the walls with those finishes if necessary.

3. Please confirm who will responsible for the wall reinforcement for any large display (70" or more).

In-wall blocking will be provided by the GCs.

4. Can someone please confirm the general height of the plenum space above the drop ceilings?

Roughly 3'-0" plenum space.

5. Will a dumpster be available for AV use during install for garbage disposal?

The disposal of all garbage is the contractor's responsibility. All garbage must be removed on a daily basis unless otherwise discussed.

6. Can clean floor plans and elevations with dimensions or scale that can be magnified without image degradation be provided?

Please see the previous addendum.

7. What is the size, operational hours and usage restrictions of the freight elevator?

The operation hours are typically scheduled for before or after normal business hours as there are other tenants that may have deliveries during the day. If the Freight elevator is required during normal business hours it may be taken out of service for time periods of 20 minutes to one hour on prior request to the Management Office and only within the on-site supervision of a Lincoln Property Company employee unless otherwise approved.

8. Is there a Loading dock and what are operating hours for it?

The designated loading dock hours are 9:00 a.m. to 4:00 p.m. and 6:00 p.m. to 8:00 p.m. on weekdays, and 9:00 a.m. to 6:00 p.m. on weekends.

9. Please confirm that ADA compliance, including assistive listening systems, is not a requirement for these systems. If so, will an official waiver be released as part of the bid package?

Please see term number 21 in our general terms and conditions. No waiver will be offered.

BASE LEVEL REQUIREMENTS:

1. Can the equipment list for a typical Classroom and conference room be provided? We would like it to clarify how Crestron and Cyviz have been used in past room systems.

The equipment list below is for one of our Crestron based room systems:

Clock Audio	CS3N RF	Table Microphones
Crestron	PRO2/5-9	Professional Dual Bus Control System
Crestron	C2ENET-2	Dual Port Ethernet Card
Crestron	TPMC-9-B	Isys 9" Tilt Touchpanel, gloss black
Crestron	ST-PC	Dual Power Control Module
Crestron	ST-RMK	Rack Mount Kit
Crestron	C2N-RTHS	Cresnet Remote Temperature Sensor
Crestron	C2N-HBLOCK	Cresnet Distribution Block
Crestron	DM-TX-201-C	DigitalMedia 8G STP Transmitter 201
Crestron	DM-MD8X8	8x8 DigitalMedia Switcher
Crestron	DMC-C	DigitalMedia 8G STP Input Card
Crestron	DMC-HD	HDMI Input Card
Crestron	DMCO-13	2 DM Fiber & 2 HDMI w/ audio Output Card
Crestron	DMCO-33	4 HDMI w/ audio Output Card
Crestron	DM-RMC-100-F	DigitalMedia Fiber Receiver & Room Controller
Crestron	CEN-SWPOE-24	24-Port Managed PoE Switch
Crestron	CBL-DP-HD-12	DisplayPort to HDMI Interface Cable, 12'
Crestron	CBL-HD-DVI-12	HDMI to DVI Interface Cable, 12'
Crestron	CBL-HD-12	HDMI Interface Cable, 12'
Sony	BDP-S370	Blu-Ray Disc Player
Middle Atlantic	RSH Series	Rack Mount for Blu-Ray Player
Cisco	CTS-INTP-C40-K9	IntPkg C40 - NPP, PHD 1080p Cam, Rmt Cntrl, Mic, Cbls ++
Cisco	CON-PADN-INTPC40	ZCare Premier 1 Yr NBD Advance Level ATP Service Contract for IntPkg C40-
Incls	NPP, PreHD1080pCam, Rmt	Cntrl, Mic, Cbls ++
Cisco	CTS-PHD-1080P12XS	PrecisionHD 1080p Camera w 12x zoom - not sold stand alone
Cisco	CON-PADN-180P12XS	ZCare Premier 1 Yr NBD Advance Level ATP Service Contract for PrecisionHD
1080p	Camera w 12x zoom - not	sold stand alone
Cisco	LIC-INTP-C40-DD	
Cisco	LIC-INTP-C40-MS	IntPkg C40, 4Way Individual Transcoding Multisite Option
Cisco	LIC-INTP-C40-PR	IntPkg C40 Premium Resolution (1080p/720p60) Option
ClearOne	910-151-881	Converge Pro 880T 8 channel AEC microphone mixer with built in telephone
hybrid	and amplifier	RoHS
AT&T	Trimline	Telephone Handset
Crown	180A	Audio Mixer Amplifier
JBL	Control 24CT	Ceiling Speakers
NEC	P521	Data/Video Display
Chief	LTMU	Wall Mount for Display
Vaddio	535-2000-217	Thin Profile Wall Mount
Surge-X	SX1120-RT	Power Conditioner
Middle Atlantic	BRK-12-22	Equipment Cabinet
Middle Atlantic	UQFP-4D	Ultra Quiet Fan Panel
Middle Atlantic	RK-RR12	Rack Rails
Middle Atlantic	PD-815SC-NS	Internal AC Power Wiring and Outlets for Equipment

2. Please confirm that only 13 locations in total require AV systems, as described in the RFP Statement of Needs?

Confirmed.

3. Please confirm that displays should be 4K resolution, as opposed to 1080p.

The displays can be 4K resolution. The cameras and other equipment used for this project can be lower resolution, such as 720p or 1080p.

4. Please confirm which rooms will have a dedicated room PC.

All of the rooms used as distance learning or video conference rooms will have a dedicated room PC provided by the University for web-based meetings. This includes rooms 605, 631, 641, 652, and 653. The university's PC will match specs recommended by the AV vendor.

5. Please confirm that only Classrooms will have client-furnished lecterns which require a confidence monitor.

This is a change from a comment at the pre-proposal meeting. The classrooms will not have a dedicated lectern. Instead, we'll likely have a small credenza in the room containing the AV equipment along the wall. The SPIA faculty tend to teach seminar style classes, sitting with the students, with the tables arranged in a circle.

The classrooms will require a confidence monitor.

6. Base system requirements specify touch panels for control, but do not specify whether the panels should be wired or wireless. Please specify which they should be. If a mixture of wired and wireless are required, please specify which rooms get which.

Wired touch panel controls would be ideal. For conference rooms 631 and 641, the controls will be located on the conference room table. For classroom 605, the instructor station will be aligned to the north wall, facing the students. For classrooms 652 and 653, the instructor will likely sit at the southwest corner of the room.

7. Please confirm no room requires any source that is not a computer, camera or wireless gateway based, such as a cable TV tuner, Blu-Ray player, etc.

Confirmed. No cable TV tuners, blu-ray players, or other sources are required. We will use PC based platforms for this content.

SPIA CLASSROOMS

1. Based on the requirement that video conference technologies should support a wide range of web conference technologies, including Zoom, WebEx, Skype, etc, we assuming a generic USB bridging device should be provided. Is there a specific device that is generally used now or preferred?

We've tested technology such as the BlackMagic Web Presenter and Vaddio's AV Bridge. We don't have a specific preference, except that we still require this content to be manually configured to stream via RTSP.

2. Please confirm that all Classrooms use dual displays.

Confirmed.

3. Please confirm that content should be independently assignable to each display, so that two different images can be displayed simultaneously.

Confirmed.

4. It appears that in a few instances, the farthest viewer is more than 20' away from the display location. Current guidelines calculate that the farthest viewer from a 90" display should be no more than 16' to 18', depending on content. Should projection systems be considered for these rooms? If so, is there a preference for type (such as laser), make or model?

We would prefer non-projection systems for these rooms.

5. We understand that the Classrooms should have one dedicated room PC and one wireless presentation gateway. Assuming that additional laptops must be able to hard-wire connect to the system, please confirm how many laptop inputs are required for the Classrooms and where they should be located for laptop access (i.e. lectern, wall, floor boxes, etc).

For the two large SPIA classrooms, the tables will likely be configured in a ring, allowing for seminar style classes. The VGA and HDMI laptop inputs should be located in a floorbox in the southwest corner of the room, to allow the instructor to teach sitting at the table with the students.

6. Please provide the dimensions of any Classroom whiteboard.

No whiteboards in the classrooms. Writeable wall paint is located on the plan north and south walls of all classrooms – no AV scheduled on these walls.

CLASSROOM 605

1. The Statement of Needs for this room specifies that the instructor should have the choice of wired mic or wireless lav. We require several clarifications regarding this statement;
 - a. Please clarify what type of wired microphone is desired here. A wired hand-held microphone, a lectern gooseneck mic or something else?

A gooseneck microphone for the instructor workstation.

- b. A wired microphone must connect to an XLR jack somewhere to access the audio switcher/DSP. Where would such jacks be located in this room and how many should there be?

The instructor workstation for this room will be facing the students, next to the north wall, within five feet of the east wall. One XLR jack should be available on the north wall, approximately five feet from the east wall.

- c. How many lavalier mics are required?

One lavalier microphone.

- d. Should the wireless mic only be a lavalier type or should wireless hand-held or head-set mics be made available as well?

Lavalier only.

- e. If there is more than one wireless mic as part of the system, do they all have to be able to function simultaneously or is it acceptable to only have one operate at any given time?

Given that this is a student environment, push to talk (or push to turn on/off) is an acceptable option.

2. In terms of the microphone solution for student participation in this room, is the student seating layout fixed or moveable? Is it desired to have ceiling microphones for student pick up? We require ceiling heights for this room as well.

The student seating layout for this lab is fixed, however, a wireless microphone solution is preferred for student participation.

CONF RM 631

1. We need the ceiling height to determine the appropriate microphone and speaker solution.

Standard ceiling height as noted on sheet A120 to be 9'-0" AFF unless otherwise noted.

2. We assume this room should have one dedicated room PC and one wireless presentation gateway. Please confirm.

The room will have a dedicated room PC supplied by the university, supporting web-based meetings. The room will still require HDMI, VGA, and wireless presentation inputs.

3. Assuming that besides the above sources, laptops must also be able to hard-wire connect to the system, please confirm how many laptop inputs are required and where they should be located for laptop access (i.e. cable cubbies, wall plates, floor boxes, etc).

The laptop HDMI and VGA inputs will be available to the conference room table, in the middle of the room via a floorbox.

4. Please confirm whether only HDMI is required for laptop connection or if VGA is also required.

Both HDMI and VGA are required.

5. Please confirm that content should be independently assignable to each display, so that two different images can be displayed simultaneously.

Confirmed.

CONF RM 641

1. Please confirm whether this room requires one or two displays.

Two displays.

2. If there should be two displays, please confirm that content should be independently assignable to each display, so that two different images can be displayed simultaneously.

Confirmed.

3. We need the ceiling height to determine the appropriate microphone and speaker solution.

Standard ceiling height as noted on sheet A120 to be 9'-0" AFF unless otherwise noted.

4. We assume this room should have one dedicated room PC and one wireless presentation gateway. Please confirm.

The room will have a dedicated room PC supplied by the university, supporting web-based meetings. The room will still require HDMI, VGA, and wireless presentation inputs.

5. Assuming that besides the above sources, laptops must also be able to hard-wire connect to the system, please confirm how many laptop inputs are required and where they should be located for laptop access (i.e. cable cubbies, wall plates, floor boxes, etc).

The laptop HDMI and VGA inputs will be available to the conference room table, in the middle of the room via a floorbox.

6. Please confirm whether only HDMI is required for laptop connection or if VGA is also required

Both HDMI and VGA are required.

For the 9 side seats in the conference rooms

1. Do we need to provide a solution to capture audio from these participants?

No. The audio solution should be optimized for those sitting around the table.

2. If so, is this a common application that should be built into the room, or a rare occasion where a wireless mic can be passed around?

N/A

3. Will these seats all be located on one side of the table, or split up and on each side of the room?

The conference room will be arranged with short end of the table adjacent to the monitors, with the seats primarily arranged down the long sides of the table. The camera should capture all of the participants around the table.

ROOMS 630 & 632

1. The RFQ indicates that content to the displays in these rooms should be provided by VGA and HDMI, as well as wireless interfaces. Please clarify if the VGA and HDMI inputs should be wall-plates or located at a conference table.

For room 630, wall plates. For room 632, a conference table via a floorbox.

2. How should these systems being controlled (TV on/off, volume control, source select)?

The monitor's remote is acceptable for these spaces.