	<h2 style="text-align: center;">State of South Carolina</h2>	Solicitation: Date Issued: Procurement Officer: Phone: E-Mail Address: Mailing Address:	5400020715 12/14/2020 Richard Edmondson (843)792-2389 <a href="mailto:edmondsr@musc.edu">edmondsr@musc.edu</a> University Procurement, 1 South Park Circle Building #1, Suite 501 Charleston, SC 29407
Request for Qualification			

DESCRIPTION: **HCS PACS QUESTIONNAIRE**

USING GOVERNMENTAL UNIT: **MEDICAL UNIV OF S C**

SUBMIT YOUR OFFER ON-LINE AT THE FOLLOWING URL: <http://www.procurement.sc.gov>

SUBMIT OFFER BY (Opening Date/Time): **12/30/2020 @ 2:00 P.M.** (See "Deadline For Submission Of Offer" provision)

QUESTIONS MUST BE RECEIVED BY: (See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **See Page 2**

CONFERENCE TYPE: <b>Not Applicable</b> DATE & TIME:	LOCATION: <b>Not Applicable</b>
(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)	
AWARD & AMENDMENTS	Award will be posted on <b>Not Applicable</b> . The award, this solicitation, any amendments, and any related notices will be posted at the following web address: <a href="http://www.procurement.sc.gov">http://www.procurement.sc.gov</a>
You must submit a signed copy of this form with Your Offer. By signing, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of ninety (90) calendar days after the Opening Date. (See "Signing Your Offer" provision.)	
NAME OF OFFEROR	Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.
(full legal name of business submitting the offer)	
AUTHORIZED SIGNATURE	DATE SIGNED
(Person must be authorized to submit binding offer to contract on behalf of Offeror.)	
TITLE	STATE VENDOR NO.
(business title of person signing above)	(Register to Obtain S.C. Vendor No. at <a href="http://www.procurement.sc.gov">www.procurement.sc.gov</a> )
PRINTED NAME	STATE OF INCORPORATION
(printed name of person signing above)	(If you are a corporation, identify the state of incorporation.)
OFFEROR'S TYPE OF ENTITY: (Check one) (See "Signing Your Offer" provision.)	
<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Other _____	
<input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Corporation (tax-exempt) <input type="checkbox"/> Government entity (federal, state, or local)	

**INSTRUCTIONS FOR OFFERORS**  
**SUBMITTING BIDS ONLINE**

**ONLY ONLINE SBUMISSION WILL BE ACCEPT FOR THIS RFQ**

**VENDOR REGISTRATION MANDATORY (JAN 2006)**

You must have a state vendor number to be eligible to submit an offer. To obtain a state vendor number, visit [www.procurement.sc.gov](http://www.procurement.sc.gov) and select New Vendor Registration. (To determine if your business is already registered, go to "Vendor Search"). Upon registration, you will be assigned a state vendor number. Vendors must keep their vendor information current. If you are already registered, you can update your information by selecting Change Vendor Registration. (Please note that vendor registration does not substitute for any obligation to register with the S.C. Secretary of State or S.C. Department of Revenue. You can register with the agencies at <http://www.scbos.com/default.htm> ) [02-2A145-1]

All Offerors desiring to respond to this solicitation can register and submit their response online. To respond online, Offeror must follow the new South Carolina Enterprise Information System (SCEIS) vendor registration instructions found at the South Carolina Procurement Information Center website address of: <http://www.procurement.sc.gov>. If Offeror is registered in the old procurement system, Offerors must register or update their information in the new SCEIS system. Once the registration process is complete, the system will generate a new SCEIS vendor user id and password. The Offeror must keep this information current or the Offeror will not be able to submit future bids online.

Offerors will need to follow these instructions carefully when responding to the solicitation online.

1. The original solicitation response should be submitted online and it will be the official response.
2. All Offerors must attach all additional requested documents to their response in the online system. These documents can be attached under the **"Notes and Attachments"** tab of the online solicitation either on the main page or under the necessary line item.

**OFFERORS ENCOUNTERING REGISTRATION PROBLEMS SHOULD CONTACT:**

DSIT Help Desk (803) 896-0001,  
Select Option 1, then Option 2  
Monday – Friday 8:00 A.M. – 4:30  
P.M. (EST)

Offeror instructions can be found at:  
<http://procurement.sc.gov/PS/vendor/PS-vendor-submitting-offers.phtm>

## MUSC Health Care System PACS Selection Preliminary Questionnaire

**Purpose:**

- ❖ The intent of this Preliminary Questionnaire is to qualify interested parties’ products for further consideration during the MUSC Health Care System Radiology PACS selection process.

**MUSC Health Care Profile:**

- ❖ The MUSC Health Care System is an integrated system owned by the State of South Carolina and based in Charleston, SC. The MUSC Health Care system provides care to patients throughout the state of South Carolina and is composed of 8 affiliated hospitals comprised of an academic medical center, community hospitals and clinics situated in Charleston, Chester, Florence, Lancaster and Marion counties. (see Appendix A for additional information and acronym legend).
- ❖ Radiology Study Volume – 700,000 studies per year
- ❖ MUSC Radiologists - 50
- ❖ MUSC Affiliated Radiologists - 47

**Instructions:**

- ❖ Please complete all sections on this Preliminary Questionnaire marked “\* **Vendor Completion Required**” in bold font. **NOTE: Incomplete answers, misleading or incorrect information, and/or blank answers may disqualify your PACS product from further consideration.**

❖ *Vendor Information*

* Vendor Completion Required	Answers
Vendor Name	
Vendor Representative Name	
Vendor Representative Phone	
Vendor Representative Email	<a href="#">_____</a>
How long has the vendor sold PACS?	
Does your PACS include an option for an <u>integrated</u> Cardiovascular (CV) PACS for diagnostic and reporting purposes?	
Does your PACS include an option for an <u>integrated</u> Pathology module for diagnostic and reporting purposes?	

## MUSC Health Care System PACS Selection Preliminary Questionnaire

### ❖ *General Radiology PACS Information*

* Vendor Completion Required	Answers
1. What is the PACS application name?	
2. What is the current generally available (GA) software version?	
3. When was the current GA software version released?	
4. What is the current market share (%) of the PACS system and what is the source of information for the claimed market share?	
5. Please list U.S. integrated delivery health care systems where your PACS system has been completely implemented and is using the current GA version in a Production environment. The systems listed should be of similar size and hospital composition to the MUSC Health Care system.	
6. Please list the largest health care system customer where your current GA version of PACS is implemented in a Production environment and the number of simultaneous users typically logged into the system and using it.	
7. Please explain how your PACS system can leverage DICOM Pre-fetch for comparison studies.	

### ❖ *General Radiology PACS Architecture*

* Vendor Completion Required	Answers
1. Describe your current GA PACS architecture (i.e. client-server, browser based, etc.)	

## MUSC Health Care System PACS Selection Preliminary Questionnaire

2. Is your current PACS GA release Vendor Neutral Archive (VNA) agnostic?	
3. Does your PACS offer a true zero footprint client?	

### ❖ *Radiology PACS Technical Specifications*

* Vendor Completion Required	Answers
1. Is the product certified and supported for implementation on both physical and VM servers?	
2. List the required servers specifications (i.e. application, database, interface, etc. and the technical specifications for a typical installation in a comparable health care system).	
3. What types of storage are supported?	
4. Can the customer provide all required hardware (i.e. server, clients, appliances, etc.)? If not, explain why hardware must be provided by the vendor.	

## MUSC Health Care System PACS Selection Preliminary Questionnaire

❖ *Radiology PACS Technical Specifications (cont.)*

<b>* Vendor Completion Required</b>	Answers																							
5. List the client specifications.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; padding: 5px;">Client Type (Thin, Thick, VDI, Browser Base, etc.)</th> <th style="width: 10%; padding: 5px;">Install Type (exe, msi, etc.)</th> <th style="width: 30%; padding: 5px;">Operating System</th> <th style="width: 10%; padding: 5px;">RAM</th> <th style="width: 10%; padding: 5px;">CPU</th> <th style="width: 10%; padding: 5px;">Disk</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Client Type (Thin, Thick, VDI, Browser Base, etc.)	Install Type (exe, msi, etc.)	Operating System	RAM	CPU	Disk																	
Client Type (Thin, Thick, VDI, Browser Base, etc.)	Install Type (exe, msi, etc.)	Operating System	RAM	CPU	Disk																			
6. Please provide a detailed explanation of how your system can support replication for a Tier 1 implementation with hardware located in 2 geographically isolated data centers.																								
7. Please explain how your PACS system can be configured to use load balancing with Citrix NetScaler and automatic failover.																								

## MUSC Health Care System PACS Selection Preliminary Questionnaire

8. List the database vendor and version that your PACS system uses.	
9. Provide a detailed explanation about how your PACS implements Imaging Object Change Management (IOCM)	
10. Is your PACS certified to be deployed using Citrix for remote access? Also please describe any other remote reading options with your PACS.	

### ❖ *Radiology PACS Security*

* Vendor Completion Required	Answers
1. Does your PACS application support AD integration with SAML v2.0 for user authentication using MUSC's AD instance as the Identity Provider? If not then provide a detailed explanation of how user authentication to your application occurs.	<ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>

## MUSC Health Care System PACS Selection Preliminary Questionnaire

2. Is data in transit from your PACS encrypted using TLS v1.2? If not please explain how data in transit is secured.	
3. Please describe how data at rest is secured in your PACS (i.e. AES 256, TDE, etc.)	
4. Does your PACS application support the use of role-based access control using Active Directory groups?"	

❖ *Radiology PACS Integration*

* Vendor Completion Required	Answers
1. Does your PACS integrate to VNA and is it vendor agnostic?	
2. Does your PACS integrate to Nuance PowerScribe? Please describe how the integration is accomplished.	



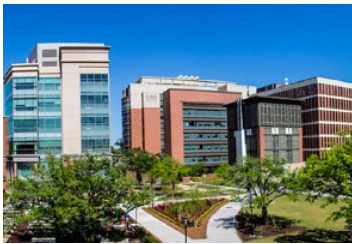
## MUSC Health Care System PACS Selection Preliminary Questionnaire

3. Describe the type of interfaces that are supported by your PACS (i.e. HL7, FIHR, API, etc.), Additionally, please describe the functionality associated with the interface.	
4. How many integrations have you performed with the currently GA version of your PACS to Epic's EMR?	
5. Please describe your process for merging patients within your PACS.	

## MUSC Health Care System PACS Selection Preliminary Questionnaire

### Appendix A

#### MUSC Medical Center



[MUSC Health](#), Founded in 1824 in Charleston, MUSC is the oldest medical school in the South, as well as the state's only integrated, academic health sciences center with a unique charge to serve the state through education, research and patient care. Comprising some 1,600 beds, more than 100 outreach sites, the MUSC College of Medicine, the physicians' practice plan, and nearly 275 telehealth locations.

#### Chester Medical Center



[Chester Medical Center](#) is a not-for-profit private health care organization that joined MUSC Health Care in ?. As the only hospital in Chester County, MUSC Health Chester Medical Center is expanding its facilities and services. Chester Medical Center is an intimate, 82 licensed bed hospital whose caregivers share a sense of pride working in close-knit teams with supportive department directors, and serving the residents of Chester County.

## MUSC Health Care System PACS Selection Preliminary Questionnaire

### Florence Medical Center



MUSC Health Florence Medical Center is a leading regional acute care facility comprised of 396 patient beds. Services include heart and vascular care, cancer treatment, minimally invasive orthopaedic and general surgery, diagnostics, women’s health and rehabilitation services.

### Lancaster Medical Center



MUSC Health Lancaster Medical Center is a 225-bed, all-private room facility. More than 120 physicians and care team members strong. Lancaster Medical Center offers acute care, diagnostic services, women’s health, orthopaedic services, cardiac services, general and laparoscopic surgery, rehabilitation, emergency treatment, wound care and more.

## MUSC Health Care System PACS Selection Preliminary Questionnaire

### Marion Medical Center



MUSC Health Marion Medical Center is a 124-bed, acute care facility that provides complete inpatient, outpatient, diagnostic, medical, surgical and emergency care. Marion Medical Center is a Joint Commission accredited and includes Mullins Nursing Center — a 92-bed, long term care facility.

### LEGEND for acronyms

AD – active directory
AES - advanced encryption standard
API - application programming interface
CPU - central processing unit
DICOM - digital imaging and communications in medicine
EMR - electronic health record
ETC - Et cetera
FHIR - fast healthcare interoperability resource
GA - generally available
HL7 - health level-7
I.E. - meaning “that is.”
IOCM - imaging Object Change Management
MSI - microsoft installer
PACS - picture archive communication system
RAM - random access memory
SAML - security assertion markup language
TDE - transparent data encryption
TLS - transport layer security
U.S. - united states
VDI - virtual desktop infrastructure
VM – virtual machine
VNA - vendor neutral archive