Modality Validation Purpose
The purpose of Validation is to determine if a specific modality device can effectively function with VistA Imaging before the device ever reaches a Veterans Affairs (VA) Hospital. This interoperability is critical for successful operations for all VA Hospitals.

There are guidelines for this interoperability. They are in the form of the DICOM Standard and IHE. In addition, there is the “Joint VA/DoD DICOM Conformance Requirements for Digital Acquisition Modalities” document. It contains functional requirements that may be specific to the VA and DoD (Department of Defense).

With no Validation, there is no guarantee the device will function effectively with VistA Imaging. It is unacceptable to VA Hospitals to discover interoperability deficiencies after the hospital purchased and installed the product. Performing the Validation test allows both the vendor and VistA Imaging to address these deficiencies in an Engineering environment before it could negatively impact the VA hospital.

Modality Validation Overview
The Validation Test is specific to DICOM and some basic IHE workflows. This test does not address other aspects of the modality device’s functionality. It is possible, and likely, the modality device is required to submit to other test(s) as determined by other groups/teams within the VA entity. VistA Imaging has no control in this matter.

The Contact information contains necessary information to work with the VistA Imaging Group. The goal is to have the vendor’s Engineering or Validation/Verification staff to work with the VistA Imaging Group. Experience shows these two staff groups offer benefits to this process. They generally have a better understanding of DICOM and IHE and possible problems that may occur during Validation Testing. The vendor sends an email to the VA Validation Group. A member of the VA Validation Group will respond and become the point of contact for the testing process.

The Vendor Testing Connection Information contains network connection data for the VistA Imaging Validation Machine. This machine is outside the VA firewall for vendor’s accessibility. Performing an IP network Ping (ICMP) will not succeed.

The General Testing Procedure describes the basic steps of the test. Please follow these steps. When completed, contact the VistA Imaging Group to have the results reviewed. The point of contact will review the results and notify the vendor of Approval or Disapproval of the Validation Test. The criteria for the Disapproval are forward to the vendor.

Contact Information
Department of Veterans Affairs
Washington CIO Field Office
1335 East-West Highway Suite 3100
Silver Spring, MD 20910
Emails are the primary form of communication. Please send email requests to the following Validation Group:

    VA Email: VHAVIDICOMValidation@va.gov
    VA Internal Email: VHA VI DICOM Validation
Vendor Testing Connection Information

Validation System IP Address: 152.131.11.199
Validation System Name: ISW-IMGVALIDATR.imaging.med.va.gov

Modality Worklist SCP Port Number: 62510
Modality Worklist SCP AE Title: VISTA_WORKLIST

Default Storage SCP Port Number: 62600
(Some vendors may be instructed to send images to port 62700)
Storage SCP AE Title: VISTA_STORAGE

Query/Retrieve SCP Port Number: 60090
Query/Retrieve SCP AE Title: DICOM_QR

General Testing Procedure:

The following is the general testing steps to perform validation over the Internet. The vendor can start performing the following steps once they receive this document. Testing does not require constant communication with the VA. Please feel free to contact the VA as needed. Please notify the VA, via email, when the following steps are complete. The VA will review and collect information and return the testing results.


2. Before starting the actual test, supply the VA, via email, with:
   a. Calling AETitle for Q/R
   b. Called AETitle for Storage
   c. Host IP address
   d. Port number

3. The VA will need to configure the VA Q/R SCP to perform the Query and Retrieve against the Validation System.

4. There will be a response to this email containing one or more Accession Numbers to perform the Q/R.

5. Perform a Q/R Study Root/Study Level C-FIND operation using the Patient/Study information received from the VA. (Note: VistA Imaging only supports Study Root/Study Level Query and Retrieve requests. An error is returned if a Study Root/Series Level and Study Root/Image Level requests are attempted.)

6. Perform a Q/R Study Root/Study Level C-MOVE operation to retrieve the study. Create a valid representation of derived images generated by the device under testing. The derived images should be part of the same study, but as a new series.

7. If you support multiple SOP Classes, please generate images for each SOP Class supported.

8. Send the derived images generated by the device under testing to the VA SCP Storage. Send more than a single derived image. The images must contain the meta-data populated with information received from the study.

9. Send an email to the VA tester notifying them that your test is complete.