Raptor VIX

# VIX

The VistA Imaging Exchange (VIX) service is a service deployed at all VA sites. The purpose of the VIX is to provide access to images stored in VistA Imaging using web services. To provide access to images for Raptor, a modified version of the VIX will be deployed with Raptor that will communicate with the VIX services already deployed at VA sites.

# Raptor VIX

The Raptor VIX is a modified VIX service that will provide access to image stored in VistA Imaging. The Raptor VIX will include an interface for retrieving the list of studies for a patient. The Raptor VIX will also host an HTML5 viewer for displaying the images stored in a study.

# Raptor Interface

The Raptor VIX interface uses a RESTful web service request for retrieving the list of studies for a patient. The request should be made as the following:

http://<VIX hostname>:<VIX port>/RaptorWebApp/restservices/raptor/studies/<patient ICN>/<VA site number>

The interface only returns radiology studies for the patient (not all images associated with the patient record).

The result will be in XML format similar to the example shown in [Appendix A](#_Appendix_A)

The result includes the study level information for the patient. If desired the series/image information can also be provided. The series/image information will be displayed in the HTML5 viewer.

# Credentials

The Raptor proof of concept (POC) used hard coded credentials for communicating with VistA sites using the Medical Domain Web Services (MDWS). The Raptor VIX will take advantage of these same credentials. Based on the site number provided when requesting data, the Raptor VIX will use the appropriate credentials for that site.

# Patient Sensitivity

It is assumed that patient sensitivity has been checked and properly logged before requesting the list of studies through this interface. This interface assumes only authorized users are requesting patient studies. Access to sensitive patients will not be logged by this interface.

# Displaying Images

Images will be displayed using an HTML5 viewer hosted on the Raptor VIX. The input to the HTML5 viewer will be the studyId property in the study tag of the XML result. The specifics of viewing images are TBD.

# Appendix A

The following is a sample result when requesting the list of studies for a patient:

<studies>

<study>

<cptCode/>

<description>

MRI BRAIN W/CONT

</description>

<dicomUid>

1.2.826.0.1.3680043.8.966.1.4.1.6899790.8699.1.20910.44

</dicomUid>

<event>

MAGNETIC RESONANCE SCAN

</event>

<imageCount>

630

</imageCount>

<imageType>

IMAGE

</imageType>

<origin/>

<patientIcn>

500000004V486589

</patientIcn>

<patientName>

VAN GOGH,VINCENT

</patientName>

<procedureDate>

2010-02-09T13:00:00-05:00

</procedureDate>

<procedureDescription>

RAD MR

</procedureDescription>

<specialtyDescription>

RADIOLOGY

</specialtyDescription>

<studyClass>

CLIN

</studyClass>

<studyId>

urn:vastudy:100-9838-500000004V486589

</studyId>

</study>

<study>

<cptCode/>

<description>

MRI BRAIN W/O &amp; W/CONT

</description>

<dicomUid>

1.2.826.0.1.3680043.8.966.1.4.1.6908895.8699.1.110409.43

</dicomUid>

<event>

MAGNETIC RESONANCE SCAN

</event>

<imageCount>

746

</imageCount>

<imageType>

IMAGE

</imageType>

<origin/>

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500000004V486589

</patientIcn>

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VAN GOGH,VINCENT

</patientName>

<procedureDate>

2009-11-04T13:00:00-05:00

</procedureDate>

<procedureDescription>

RAD MR

</procedureDescription>

<specialtyDescription>

RADIOLOGY

</specialtyDescription>

<studyClass>

CLIN

</studyClass>

<studyId>

urn:vastudy:100-9083-500000004V486589

</studyId>

</study>

<study>

<cptCode/>

<description>

CT HEAD W/IV CONT

</description>

<dicomUid>

1.2.826.0.1.3680043.8.966.1.4.1.6908970.9099.1.102909.57

</dicomUid>

<event>

COMPUTED TOMOGRAPHY

</event>

<imageCount>

200

</imageCount>

<imageType>

IMAGE

</imageType>

<origin/>

<patientIcn>

500000004V486589

</patientIcn>

<patientName>

VAN GOGH,VINCENT

</patientName>

<procedureDate>

2009-10-29T09:00:00-04:00

</procedureDate>

<procedureDescription>

RAD CT

</procedureDescription>

<specialtyDescription>

RADIOLOGY

</specialtyDescription>

<studyClass>

CLIN

</studyClass>

<studyId>

urn:vastudy:100-11870-500000004V486589

</studyId>

</study>

</studies>