
Subject: Re: query dicom

Posted by [David Fanning](#) on Tue, 07 Dec 2004 21:44:58 GMT

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Soren writes:

- > I am new to IDL and have been trying to look through the docs in this
- > issue:
- > I want to query a dicom file for some tags, is it correctly understood
- > that this is not supported in the standard IDL dicom reader?

While it is true the READ_DICOM function will not do this, there is no reason you can't query for tags with the IDLffDicom object. For example:

```
IDL> filename = filepath(subdir=['examples', 'data'], 'mr_brain.dcm')
IDL> thisobject = obj_new('idlffdicom', filename)
IDL> thisobject -> dumpelements
  0 : (0002,0000) : UL : META Group Length : 4 : 162
  1 : (0002,0001) : OB : META File Meta Information Version : 2 : 0 1
  2 : (0002,0002) : UI : META Media Stored SOP Class UID : 26 :
1.2.840.10008.5.1.4.1.1.4
  3 : (0002,0003) : UI : META Media Stored SOP Instance UID
:1.3.46.670589.11.98.4.1997040807120170
  4 : (0002,0010) : UI : META Transfer Syntax UID : 20 :
1.2.840.10008.1.2.1
  5 : (0002,0012) : UI : META Implementation Class UID : 16 :
1.3.46.670589.17
  6 : (0002,0013) : SH : META Implementation Version Name : 12 :
ARC_CONVERT
  7 : (0008,0005) : CS : ID Specific Character Set : 10 : ISO_IR 100
  8 : (0008,0008) : CS : ID Image Type : 28 : ORIGINAL\PRIMARY\OTHER\M
\FFE
  9 : (0008,0012) : DA : ID Instance Creation Date : 8 : 19970408
 10 : (0008,0013) : TM : ID Instance Creation Time : 6 : 091220
 11 : (0008,0014) : UI : ID Instance Creator UID : 22 :
1.3.46.670589.11.98.5
 12 : (0008,0016) : UI : ID SOP Class UID : 26 :
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 13 : (0008,0018) : UI : ID SOP Instance UID : 38 :
1.3.46.670589.11.98.4.1997040807120170
 14 : (0008,0020) : DA : ID Study Date : 8 : 19960809
 15 : (0008,0021) : DA : ID Series Date : 8 : 19960809
 16 : (0008,0030) : TM : ID Study Time : 12 : 105141.0000
 17 : (0008,0031) : TM : ID Series Time : 12 : 110419.3100
 18 : (0008,0050) : SH : ID Accession Number : 0 :
 19 : (0008,0060) : CS : ID Modality : 2 : MR
 20 : (0008,0070) : LO : ID Manufacturer : 24 : Philips Medical Systems
```

21 : (0008,0080) : LO : ID Institution Name : 10 : MM05R R4.5
 22 : (0008,0090) : PN : ID Referring Physician's Name : 0 :
 23 : (0008,1030) : LO : ID Study Description : 4 : head
 24 : (0008,103E) : LO : ID Series Description : 56 : Brain
 T1W/3D/TFE TRA T1TFE 17 5 30
 25 : (0008,1090) : LO : ID Manufacturer Model Name : 12 : Gyroscan NT
 26 : (0010,0010) : PN : PAT Patient Name : 16 : MR dataset Brain
 27 : (0010,0020) : LO : PAT Patient ID : 4 : reg2
 28 : (0010,0030) : DA : PAT Patient Birthdate : 8 : 19110101
 29 : (0010,0040) : CS : PAT Patient Sex : 2 : M
 30 : (0010,1030) : DS : PAT Patient Weight : 2 : 80
 31 : (0018,0020) : CS : ACQ Scanning Sequence : 2 : GR
 32 : (0018,0021) : CS : ACQ Sequence Variant : 6 : OTHER
 33 : (0018,0022) : CS : ACQ Scan Options : 0 :
 34 : (0018,0023) : CS : ACQ MR Acquisition Type : 2 : 3D
 35 : (0018,0050) : DS : ACQ Slice Thickness : 8 : 1.600000
 36 : (0018,0080) : DS : ACQ Repetition Time : 10 : 17.420601
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 47 : (0018,0094) : DS : ACQ Percent Phase Field of View : 10 :
 79.687500
 48 : (0018,1000) : LO : ACQ Device Serial Number : 6 : 00005
 49 : (0018,1020) : LO : ACQ Software Version : 6 : NT4.5
 50 : (0018,1030) : LO : ACQ Protocol Name : 10 : T1W/3D/TFE
 51 : (0018,1081) : IS : ACQ Low R-R Value : 2 : 0
 52 : (0018,1082) : IS : ACQ High R-R Value : 2 : 0
 53 : (0018,1083) : IS : ACQ Intervals Acquired : 2 : 0
 54 : (0018,1084) : IS : ACQ Intervals Rejected : 2 : 0
 55 : (0018,1088) : IS : ACQ Heart Rate : 2 : 60
 56 : (0018,1250) : SH : ACQ Receiving Coil : 2 : H
 57 : (0018,1251) : SH : ACQ Transmitting Coil : 2 : B
 58 : (0018,1312) : CS : ACQ Phase Encoding Direction : 4 : ROW
 59 : (0018,1314) : DS : ACQ Flip Angle : 10 : 30.000000
 60 : (0018,5100) : CS : ACQ Patient Position : 4 : HFS
 61 : (0020,000D) : UI : REL Study Instance UID : 38 :
 1.3.46.670589.11.98.1.1997040807080001
 62 : (0020,000E) : UI : REL Series Instance UID : 38 :
 1.3.46.670589.11.98.2.1997040807080001
 63 : (0020,0010) : SH : REL Study ID : 4 : 735
 64 : (0020,0011) : IS : REL Series Number : 2 : 1

```

65 : (0020,0012) : IS : REL Acquisition Number : 2 : 3
66 : (0020,0013) : IS : REL Image Number : 4 : 170
67 : (0020,0032) : DS : REL Image Position Patient : 34 : -110.000000
\ -114.843517\58.580631
68 : (0020,0037) : DS : REL Image Orientation (Patient) : 54 :
1.000000\0.000000\0.000000\0.000000\1.000000\0.000000
69 : (0020,0052) : UI : REL Frame of Reference UID : 38 :
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70 : (0020,1040) : LO : REL Position Reference Indicator : 0 :
71 : (0020,4000) : LT : REL Image Comments : 0 :
72 : (0028,0002) : US : IMG Samples Per Pixel : 2 : 1
73 : (0028,0004) : CS : IMG Photometric Interpretation : 12 :
MONOCHROME2
74 : (0028,0010) : US : IMG Rows : 2 : 256
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80 : (0028,0103) : US : IMG Pixel Representation : 2 : 0
81 : (0028,1050) : DS : IMG Window Center : 4 : 1011
82 : (0028,1051) : DS : IMG Window Width : 4 : 2021
83 : (0028,1052) : DS : IMG Rescale Intercept : 8 : 0.000000
84 : (0028,1053) : DS : IMG Rescale Slope : 8 : 3.701832
85 : (0028,1054) : LO : IMG Rescale Type : 2 : US
86 : (7FE0,0010) : OW : PXL Pixel Data : 131072 : 0 0 0 0 0 0 0 0 0 0
0 0 ...
87 : (FFFC,FFFC) : OB : Pad item : 332 : 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 ...
IDL> modality = thisobject -> getValue('0008'x, '0060'x)
IDL> print, *modality[0]
MR

```

> Is there any good free IDL code that will do this?

If you want more than this, in IDL at any rate, I think you have to pay for it.

Anyone know how much the new DICOM support costs?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [Haje Korth](#) on Wed, 08 Dec 2004 13:08:09 GMT

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David,

looking at RSI web site I find that this little luxury will cost you between \$700 and \$1150 depending upon license type. But if you are quick you can get their "holiday special", and get a free dicom viewer with it. To be honest, I can imagine better Christmas presents... and they are cheaper, too! But , of course, they have nothing to do with dicom... :-)))

Haje

"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1c1fd2488c9c8cb49898a5@news.frii.com...

> Soren writes:

>

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> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [Karsten Rodenacker](#) on Wed, 08 Dec 2004 14:46:43 GMT

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You should better look into that DICOM Viewer. You will find that there is only a very limited and isolated part based upon the luxurious version. Maybe there is somebody replacing that part by the people republic DICOM object.

Karsten

On Wed, 8 Dec 2004 08:08:09 -0500, Haje Korth <noemail@address.com> wrote:

> David,
> looking at RSI web site I find that this little luxury will cost you
> between
> \$700 and \$1150 depending upon license type. But if you are quick you can
> get
> their "holiday special", and get a free dicom viewer with it. To be
> honest,
> I can imagine better Christmas presents... and they are cheaper, too!
> But ,
> of course, they have nothing to do with dicom... :-)))
>
> Haje
>
>
>
> "David Fanning" <davidf@dfanning.com> wrote in message
> news:MPG.1c1fd2488c9c8cb49898a5@news.frii.com...
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```

>> 71 : (0020,4000) : LT : REL Image Comments : 0 :
>> 72 : (0028,0002) : US : IMG Samples Per Pixel : 2 : 1
>> 73 : (0028,0004) : CS : IMG Photometric Interpretation : 12 :
>> MONOCHROME2
>> 74 : (0028,0010) : US : IMG Rows : 2 : 256
>> 75 : (0028,0011) : US : IMG Columns : 2 : 256
>> 76 : (0028,0030) : DS : IMG Pixel Spacing : 18 : 0.859375\0.859375
>> 77 : (0028,0100) : US : IMG Bits Allocated : 2 : 16
>> 78 : (0028,0101) : US : IMG Bits Stored : 2 : 12
>> 79 : (0028,0102) : US : IMG High Bit : 2 : 11
>> 80 : (0028,0103) : US : IMG Pixel Representation : 2 : 0
>> 81 : (0028,1050) : DS : IMG Window Center : 4 : 1011
>> 82 : (0028,1051) : DS : IMG Window Width : 4 : 2021
>> 83 : (0028,1052) : DS : IMG Rescale Intercept : 8 : 0.000000
>> 84 : (0028,1053) : DS : IMG Rescale Slope : 8 : 3.701832
>> 85 : (0028,1054) : LO : IMG Rescale Type : 2 : US
>> 86 : (7FE0,0010) : OW : PXL Pixel Data : 131072 : 0 0 0 0 0 0 0 0 0 0
>> 0 0 ...
>> 87 : (FFFC,FFFC) : OB : Pad item : 332 : 0 0 0 0 0 0 0 0 0 0 0 0 0 0
>> 0 ...
>> IDL> modality = thisobject -> getValue('0008'x, '0060'x)
>> IDL> print, *modality[0]
>> MR
>>
>>> Is ther eany good free IDL code that will do this?
>>
>> If you want more than this, in IDL at any rate, I think
>> you have to pay for it.
>>
>> Anyone know how much the new DICOM support costs?
>>
>> Cheers,
>>
>> David
>>
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming: http://www.dfanning.com/
>
>

```

--

Karsten Rodenacker

----- :-)

GSF - Forschungszentrum Institute of Biomathematics and Biometry

D-85758 Oberschleissheim Postfach 11 29
Karsten.Rodenacker@gsf.de | <http://ibb.gsf.de/> | DEL _ for reply
<http://ibb.gsf.de/homepage/karsten.rodenacker/>
Tel: +49 89 31873401 | FAX: ..3369

Subject: Re: query dicom

Posted by [David Fanning](#) on Wed, 08 Dec 2004 14:56:41 GMT

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Haje Korth writes:

> looking at RSI web site I find that this little luxury will cost you between
> \$700 and \$1150 depending upon license type. But if you are quick you can get
> their "holiday special", and get a free dicom viewer with it. To be honest,
> I can imagine better Christmas presents... and they are cheaper, too! But ,
> of course, they have nothing to do with dicom... :-)))

Ah, well, if they have you by the short hairs and you NEED
Dicom support, \$1000 is probably not too much to pay. The
Merge development system RSI used to write the code comes
on 5 CDs. You would probably send \$1000 worth of time
just wading through the documentation, let alone writing
your own Dicom application.

And after you have gone to all the trouble, the fewer people
who need it, the higher the price has to be. I'm sympathetic.
I spent three weeks writing my nice ActiveContour software,
and I've made about \$500 on it. As my wife says, I'd be
better off just cleaning the house. Then at least we'd have
something to show for the effort. :-(

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [David Fanning](#) on Wed, 08 Dec 2004 15:14:54 GMT

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Karsten Rodenacker writes:

> You should better look into that DICOM Viewer. You will find that there is
> only a very limited and isolated part based upon the luxurious version.
> Maybe there is somebody replacing that part by the people republic DICOM
> object.

Where are you people finding this DICOM Viewer offer?
I've been all over RSI's web page with no luck. I could
use a Christmas present, and you never know when it is
going to come in handy to see a DICOM image.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom
Posted by [Karsten Rodenacker](#) on Wed, 08 Dec 2004 15:23:38 GMT
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I don't recognize you anymore David.
Here is it <http://www.rsinc.com/services/techtip.asp?ttid=3768>

On Wed, 8 Dec 2004 08:14:54 -0700, David Fanning <davidf@dfanning.com>
wrote:

> Karsten Rodenacker writes:
>
>> You should better look into that DICOM Viewer. You will find that there
>> is
>> only a very limited and isolated part based upon the luxurious version.
>> Maybe there is somebody replacing that part by the people republic DICOM
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> use a Christmas present, and you never know when it is
> going to come in handy to see a DICOM image.
>
> Cheers,
>
> David
>

--

Karsten Rodenacker

----- :-)
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Subject: Re: query dicom

Posted by [David Fanning](#) on Wed, 08 Dec 2004 15:29:48 GMT

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Karsten Rodenacker writes:

- > I don't recognize you anymore David.
- > Here is it <http://www.rsinc.com/services/techtip.asp?ttid=3768>

Something has happened to me since I've gotten back
from Germany. I find I am much less tolerant. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [David Fanning](#) on Wed, 08 Dec 2004 15:32:12 GMT

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David Fanning writes:

- > Something has happened to me since I've gotten back
- > from Germany. I find I am much less tolerant. :-)

Now that I think about it, this probably has more
to do with the election than it does with Germany.
Just getting into the American spirit, you might say...

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [Karsten Rodenacker](#) on Wed, 08 Dec 2004 15:43:27 GMT

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That you answer now your own sendings let me think more. I think it has started with you log during your stay in Munich, especially with the last one, still unfinished...

On Wed, 8 Dec 2004 08:32:12 -0700, David Fanning <davidf@dfanning.com> wrote:

> David Fanning writes:

>

>> Something has happened to me since I've gotten back

>> from Germany. I find I am much less tolerant. :-)

>

> Now that I think about it, this probably has more

> to do with the election than it does with Germany.

> Just getting into the American spirit, you might say...

>

> Cheers,

>

> David

>

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Karsten Rodenacker

----- :-)

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Karsten.Rodenacker@gsf.de | <http://ibb.gsf.de/> | DEL _ for reply

<http://ibb.gsf.de/homepage/karsten.rodenacker/>

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Subject: Re: query dicom

Posted by [David Fanning](#) on Wed, 08 Dec 2004 15:51:22 GMT

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Karsten Rodenacker writes:

- > That you answer now your own sendings let me think more. I think it has
- > startet with you log during your stay in Munich, especially with the last
- > one, still unfinished...

You may be right.

I've checked with my wife. If I'm not going to clean the house, I might as well be traveling (as I understand it). Maybe I'll have to come back. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom

Posted by [Haje Korth](#) on Wed, 08 Dec 2004 16:08:25 GMT

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Call up the RSI web site and watch the orange banner at the top...

Haje

"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1c20c85939feb5aa9898a8@news.frii.com...

> Karsten Rodenacker writes:

>

>> You should better look into that DICOM Viewer. You will find that there
is

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>> Maybe there is somebody replacing that part by the people republic DICOM

>> object.

>

> Where are you people finding this DICOM Viewer offer?

> I've been all over RSI's web page with no luck. I could

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> going to come in handy to see a DICOM image.

>
> Cheers,
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> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom
Posted by [David Fanning](#) on Wed, 08 Dec 2004 16:16:53 GMT
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Haje Korth writes:

> Call up the RSI web site and watch the orange banner at the top...

Oh, right. Banners and other nonsense are off here.
I LOVE that Firefox browser!

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: query dicom
Posted by [Haje Korth](#) on Wed, 08 Dec 2004 16:18:58 GMT
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I guess, I am just not in desperate need for dicom support....

"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1c20c4133b85a7909898a6@news.frii.com...

> Haje Korth writes:

>

>> looking at RSI web site I find that this little luxury will cost you
between

>> \$700 and \$1150 depending upon license type. But if you are quick you can
get

>> their "holiday special", and get a free dicom viewer with it. To be honest,
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