

SonicDICOM ver2.0

Specifications of integration with external applications

February 16, 2016

<https://sonicdicom.com/>

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1. Introduction

SonicDICOM can be integrated with third-party external applications (digital charts, etc.). Results will be filtered using the URL parameters from the external application, and studies matching the criteria (e.g., Patient ID, etc.) will be displayed. This operation can be run from both the Worklist page (list.html) and the Viewer page (view.html).

1. 1 Version history

| Version | Date | Comments |
|---------|-------------------|---------------|
| 1.0 | February 16, 2016 | First version |

2. How to Display

1. Launch your web browser from the external application, set the parameters for the SonicDICOM URL, and then access it.
2. Studies matching the filter criteria will be displayed.

2. 1 EXAMPLE

Worklist Page:

<http://192.168.100.1/viewer/list.html#id=admin&password=password&patientid=%3D%3D123>

In this example, you log in automatically with the default SonicDICOM account (ID: admin, Password: password), and the studies for Patient ID 123 are displayed on the Worklist page.

Viewer Page:

<http://192.168.100.1/viewer/view.html#id=admin&password=password&patientid=123>

In this example, you log in automatically with the default SonicDICOM account (ID: admin, Password: password), and the studies for Patient ID 123 are displayed on the Viewer page.

2. 2 Required Parameters

The three parameters below are required for linking.

| | |
|-----------------|---|
| id | The login ID for SonicDICOM EXAMPLE: id=admin |
| password | The account password for SonicDICOM EXAMPLE: password=password |
| filter criteria | The filter criteria EXAMPLE: patientid=%3D%3D123 |

* For the "192.168.10.100.1" section, enter the IP address of the PC on which SonicDICOM is installed.

* For the "admin" and "password" sections, enter your account's log in information for SonicDICOM.

* Enter "&" between each set of parameters.

* For parameter values (Non-alphanumeric symbols), always use escapes. The "%3D%3D" in the example is the escaped equivalent of "==".

3. Worklist page

On the Worklist page (list.html), you can set the following entries as filter criteria.

3.1 Parameters

| Item | Parameter | Example |
|---------------------|-------------------|--|
| Study Instance UID | studyinstanceuid | studyinstanceuid=%3D%3D1%2E2%2E392%2E200224%2E2%2E3000%2E8001 (studyinstanceuid===1.2.392.200224.2.3000.8001) |
| Series Instance UID | seriesinstanceuid | seriesinstanceuid=%3D%3D1%2E2%2E392%2E200224%2E3%2E3000%2E8002 (seriesinstanceuid===1.2.392.200224.3.3000.8002) |
| SOP Instance UID | sopinstanceuid | sopinstanceuid=%3D%3D1%2E2%2E392%2E200224%2E3%2E3000%2E8003 (sopinstanceuid===1.2.392.200224.3.3000.8003) |
| Patient ID | patientid | patientid=%3D%3D12345 (patientid===12345) |
| Patient Name | patientname | patientname=%3D%3DJohn (patientname===john) |
| Patient Comments | patientcomments | patientcomments=%3D%3Dsomething (patientcomments===something) |
| Patient Birth Date | patientbirthdate | patientbirthdate=%3D%3D1990%2F04%2F01 (patientbirthdate===1990/04/01) |
| Patient Sex | patientsex | patientsex=%3D%3Dm (patientsex===m) |
| Study Description | studydescription | studydescription=%3D%3Dsomething (studydescription===something) |
| Study ID | studyid | studyid=%3D%3D123456 (studyid===123456) |
| Study Date | studydate | studydate=%3D%3D2014%2F01%2F23 (studydate===2014/01/23) |
| Study Time | studytime | studytime=%3D%3D10%3A56%3A20 (studytime===10:56:20) |
| Accession Number | accessionnumber | accessionnumber=%3D%3D20140123001 (accessionnumber===20140123001) |
| Series Number | seriesnumber | seriesnumber=%3D%3D1 (seriesnumber===1) |
| Series Date | seriesdate | seriesdate=%3D%3D2014%2F01%2F23 (seriesdate===2014/01/23) |
| Series Time | seriestime | seriestime=%3D%3D10%3A56%3A20 (seriestime===10:56:20) |
| Series Description | seriesdescription | seriesdescription=%3D%3Dsomething (seriesdescription===something) |
| Modality | modality | modality=%3D%3Dmr (modality===mr) |
| Bodypart Examined | bodypartexamined | bodypartexamined=%3D%3Dknee (bodypartexamined===knee) |

3. 2 Operators

On the Workist page (list.html), you can use the following operators.

| Item | Operator | Escaped |
|-----------------------|-------------|--------------|
| Equal | = or === | = =%3D%3D |
| Not Equal | != | =%21%3D |
| Greater Than | =>> | =%3E%3E |
| Greater Than Or Equal | =>= | =%3E%3D |
| Less Than | =<< | =%3C%3C |
| Less Than Or Equal | =<= | =%3C%3D |
| Contains | =** | =%2A%2A |

4. Viewer page

On the Viewer page (view.html), you can set the following entries as filter criteria.

4. 1 Parameters

| Item | Parameter | Example |
|---------------------|-------------------|--|
| Study Instance UID | studyinstanceuid | studyinstanceuid=1%2E2%2E392%2E200224%2E2%2E3000%2E8001 (studyinstanceuid=1.2.392.200224.2.3000.8001) |
| Series Instance UID | seriesinstanceuid | seriesinstanceuid=1%2E2%2E392%2E200224%2E3%2E3000%2E8002 (seriesinstanceuid=1.2.392.200224.3.3000.8002) |
| SOP Instance UID | sopinstanceuid | sopinstanceuid=1%2E2%2E392%2E200224%2E3%2E3000%2E8003 (sopinstanceuid=1.2.392.200224.3.3000.8003) |
| Patient ID | patientid | patientid=12345 |
| Accession Number | accessionnumber | accessionnumber=20140123001 |

4. 2 Operators

On the Viewer page (view.html), you can use the following operators.

| Item | Operator | Escaped |
|-------|----------|---------|
| Equal | = | = |