

## **USG-NIVWCP**

# National Image Viewing in the Welsh Clinical Portal

An user guide for users of Mobility PACS viewing within the Welsh Clinical portal

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## 1 DOCUMENT HISTORY

## 1.1 Revision History

Date	Version	Author	Revision Summary
08/04/2020	1	Shane Herat	Finalised Version

## 1.2 Reviewers

This document requires the following reviews:

Date	Version	Name	Position
24/03/2020	0.5	Welsh Clinical Informatics Council	Key users

## 1.3 Authorisation

Signing of this document indicates acceptance of its contents.

Author's Name:			
Role:			
Signature:	Date:		
Approver's Name:			
Role:			
Signature:			
Jigilature.	Date:		

## 1.4 Document Location

Туре	Location
Electronic	

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### 2 PURPOSE

Welsh Clinical Portal (WCP) users will now be able to view radiology images from other Health Boards as well as their own. As long as a radiology report exists for the patient within the Welsh Records and Reports Service (WRRS) and an existing image is associated with the report then users can now view the image associated with the report in a modal window.

The only limit to viewing a reports associated image will be that the report exists in WRRS and therefore WCP. WCP utilises Fuji mobility servers in each Health board to allow users to view the image, as a zero-footprint browser, users will be able to view images without the need to install a local viewing software with little impact on the bandwidth available within the Health Board's networks. This document provides users with a guide on how to use the solution within WCP as well as outlining some of the key functionality of mobility image viewing.

### 3 SCOPE

This user guide covers the use of the Welsh Clinical Portal and the Mobility PACS viewer to view radiology images.

## 3.1 Key Points to Note

- In order to see an image via WCP a Radiology report must be available via WRRS.
- As a zero-footprint browser, users will not need a client installed to use Mobility.
- Each Mobility Server is connected to the specific Local Health Board/Trust PACS Database when using mobility you will see images located within that specific database under that RadIS Patient ID, in order to view images from another Health Board a user will need to close the mobility window and radiology report and open the report for the image they wish to see.
- Once the Welsh Image Archive Service is fully populated the Health Board/Trust specific limitation
  will be removed, users will be able to view all related studies for a patient regardless of where they
  were taken in the one mobility instance.

#### 4 ROLFS AND RESPONSIBILITIES

N/A

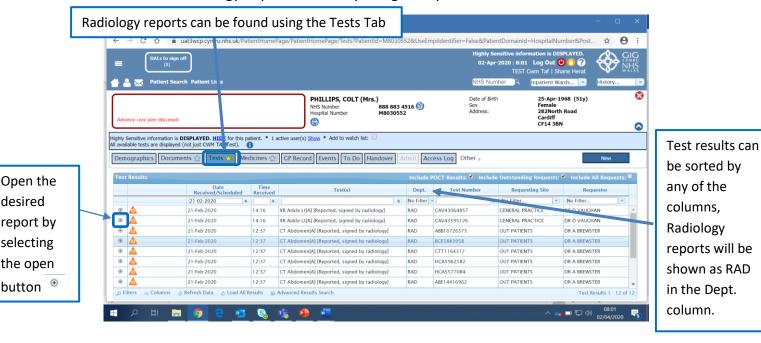
#### 5 REFERENCES

Document	Version

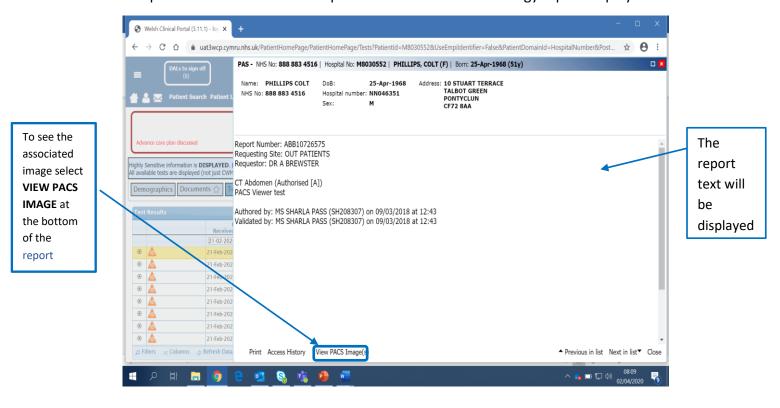
#### 6 **PROCEDURE**

## 6.1 Viewing within WCP

- Navigate to Tests for the patient desired
- Select the Radiology Report needed by using the open button



A separate modal window will open with the selected Radiology report displayed



desired

selecting

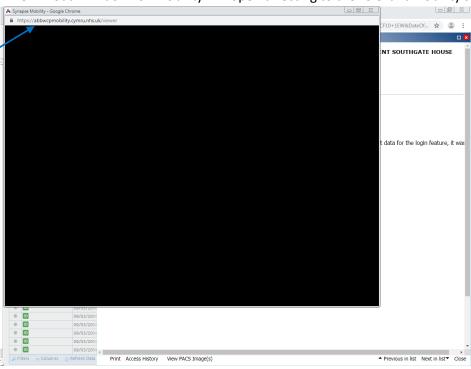
the open

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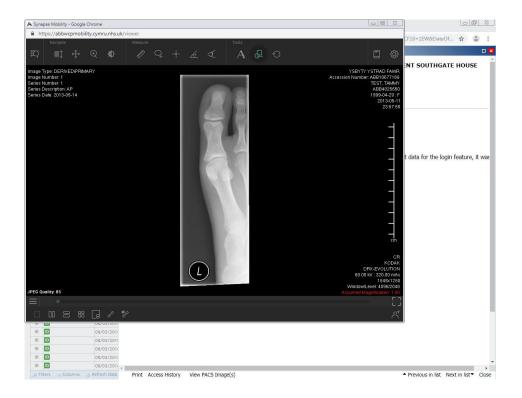
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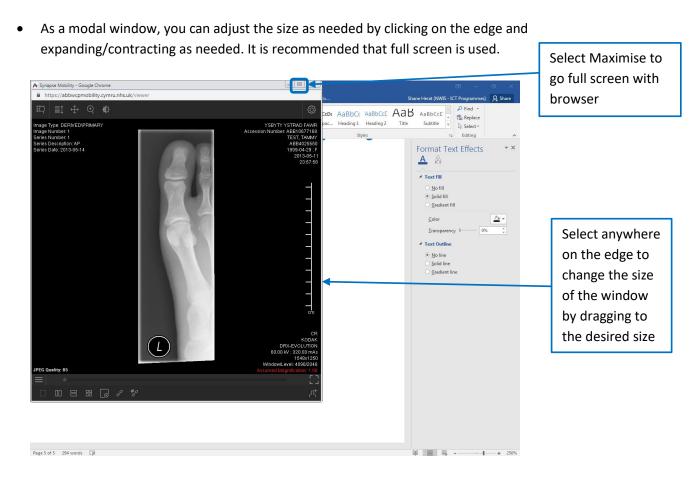
- To see the associated image for a report select the "View PACS button at the bottom of the report
- A new modal window for Mobility will open directing to the relevant mobility server.

The Mobility instance HB/trust area) you are using will be displayed in the URL

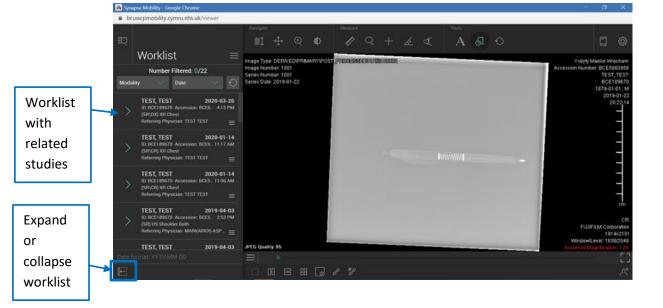


• The image for the Accession number in the report will then be displayed



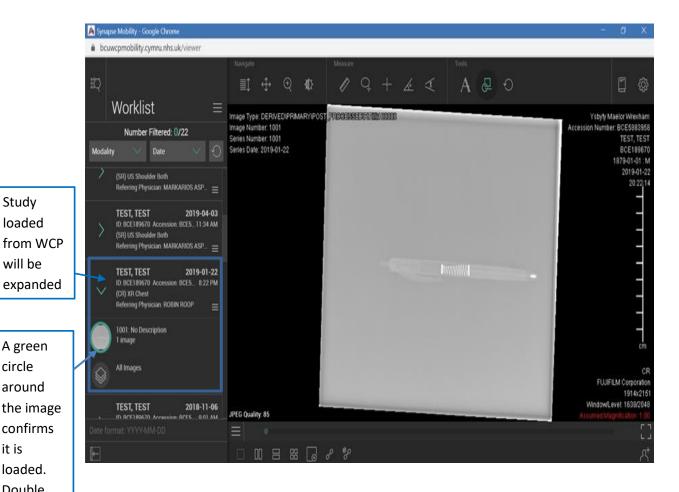


• Mobility will automatically load all related studies for that RadIS Patient ID found in the local Health Boards PACS database. You can see the worklist automatically by going full screen.



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Studies are listed in chronological order, you can find the study associated with the WCP Radiology report as it will be automatically expanded



Note: Only related studies under the same RadIS patient ID are automatically displayed.

Study

loaded

will be

A green circle

around

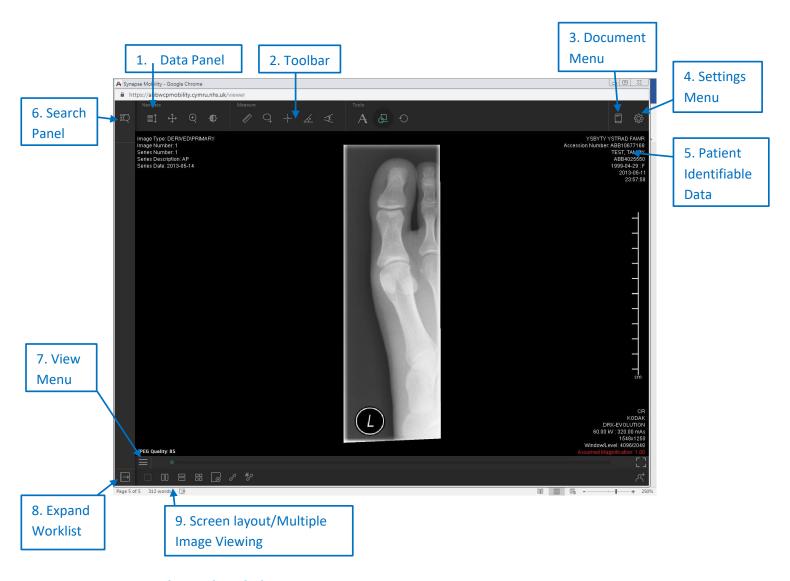
it is loaded. Double click on

the image if it is not

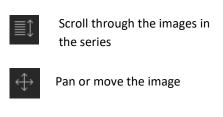


## 6.2 Mobility Overview

The following section provides an overview of Mobility pertinent to a WCP user.



#### 1. Data Panel - Tools to help navigate



Zoom in and out of the image

Adjust the window level

## 2. Toolbar – Measurements, annotation and display



Measure the distance between two points



Measure within an ellipsoid region of interest (ROI)



Measure the signal intensity of a selected pixel



Measure the angle between defined segments



Add annotations to the image



Display information from other systems as GSPS information, if applicable



Reset image view

#### 3. Document Menu



Access User Guide, Hotkeys and information about installed version

#### 4. Settings



Access display settings and logout

#### 5. Patient Identifiable Data

Will provide details on the image including, site where the image was taken, Patient name, DOB, and Accession number.

#### 6. Search Panel

Will show results for accession number and allow search for patient for that PACS database

#### 7. View Menu

Change the view where applicable (see Views section)



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## 8. Expand worklist

Expand the worklist to see images available. (See Worklist section). Note – must be in Full screen to see this

9. Screen layout/Multiple Image Viewing



View multiple images by choosing the layout.

#### 6.3 Views

There are three different view modes to view data -2D, MIP/MPR and 3D. Images are initially displayed in the 2D view mode, but you can switch view modes at any time where applicable.

#### **6.3.1** Switch view modes

Select the View Menu button



view menu

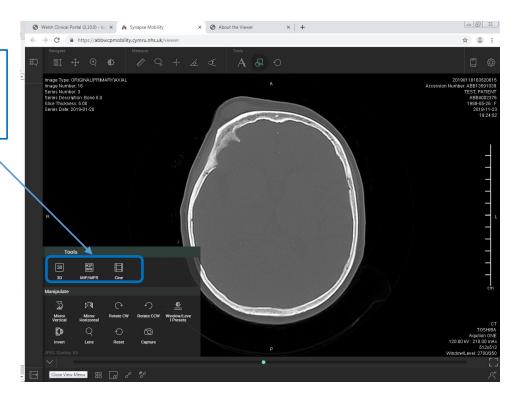
Select the

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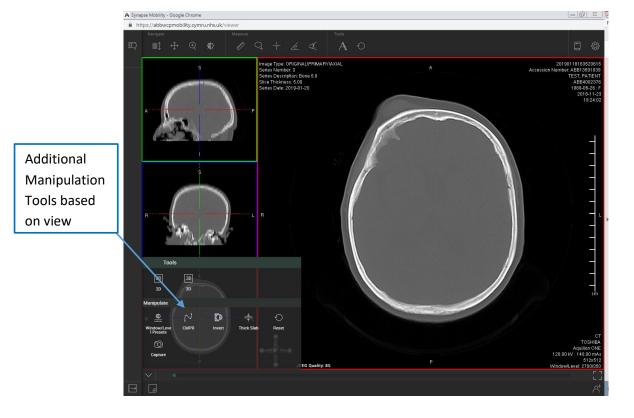
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• Select the View mode needed

Select a view mode from the view menu

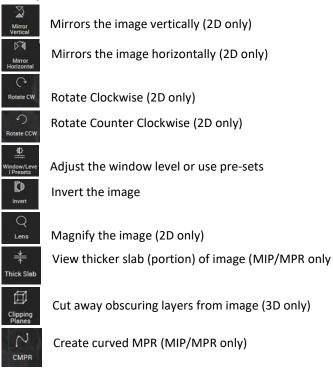


• Use the view menu for additional manipulation tools





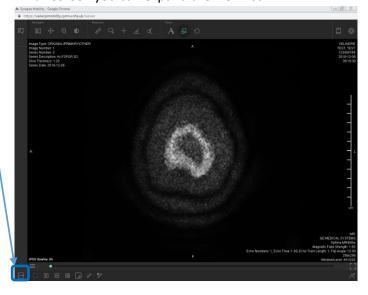
#### **Manipulate tools**



## 6.4 Worklist and Image comparison

Mobility will load all related studies located in that local Trust/Health board's PACS. The worklist can be used to view the images either separately or as multi image viewing. Note the images displayed will be for those associated with the particular RadIS Patient and is currently limited to that Health Board's viewer, any other images for a patient from other Health Board PACS will be available via WCP test results.

In full screen you can expand the worklist

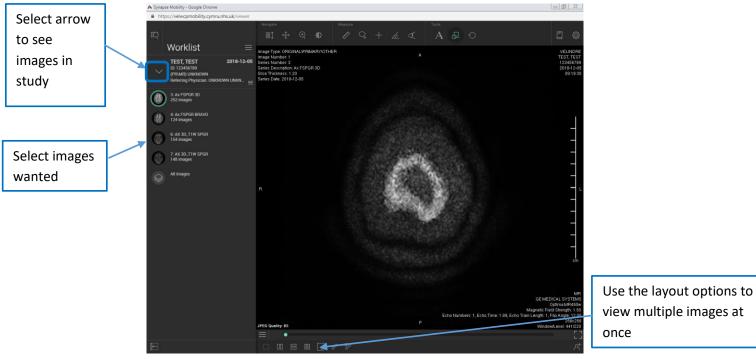


Chose Expand Worklist

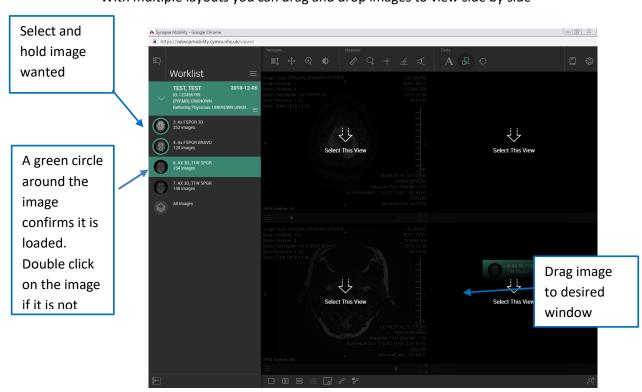
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From the worklist you can select which image you wish to see or use the layout to view multiple images



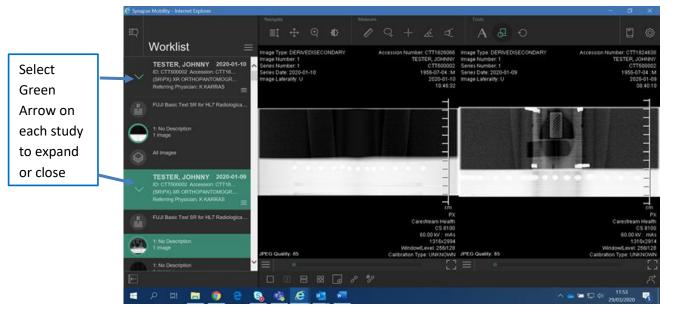
With multiple layouts you can drag and drop images to view side by side



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## 6.5 Multiple study comparison

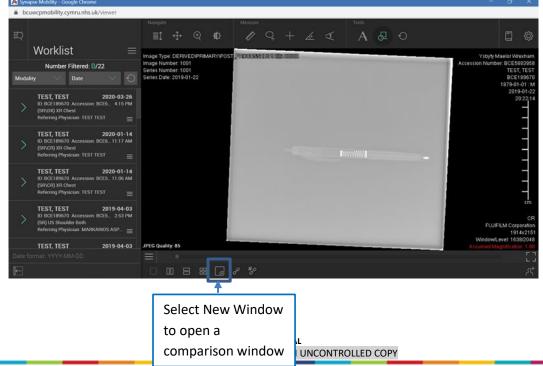
 Access any images from any study associated with the RadIS patient ID within the worklist, by expanding the study, you can compare images from different studies, use the layout buttons to compare



If the study does not expand or collapse relaunch mobility to ensure connectivity

## 6.6 New Comparison Window

• For multiple screen users you can open a new screen for comparison viewing





## 6.7 Mobility Instances

Each PACS instance in Wales has a corresponding Mobility instance to view the PACS images within that PACS database. Users can determine what Mobility instance they are in according to the prefix of the accession number or the URL of the viewer

PACS DATABASE	URL	ACCESSION NUMBER PREFIX
ANEURIN BEVAN UHB	syn-mobility- <b>abhb</b> .cymru.nhs.uk	ABBxxxxxxx
BETSI CADWALADER UHB	syn-mobility- <b>bcu</b> .cymru.nhs.uk:	BCUxxxxxxx
		BCExxxxxxx
		BCWxxxxxx
CARDIFF & VALE UHB	syn <b>cav</b> mob.cymru.nhs.uk:	CAVxxxxxx
CWM TAF MORGANNWG	syn-mobility- <b>cthb</b> .cymru.nhs.uk	CTTxxxxxxx
UHB		CTSxxxxxxx
		CTNxxxxxxx
HYWEL DDA UHB	syn-mobility- <b>hwyeldda</b> .cymru.nhs.uk	HDDxxxxxxx
		HCExxxxxxx
		HPExxxxxxx
		HCAxxxxxxx
SWANSEA BAY UHB	syn-mobility- <b>abmu</b> .cymru.nhs.uk	ABExxxxxxx
(FORMERLY ABMU)		ABMxxxxxxx
VELINDRE TRUST	syn-mobility- <b>vel</b> .cymru.nhs.uk:	VELxxxxxxxx

## 7 TROUBLESHOOTING

If you are experiencing issues with Mobility, we recommend users refer to the guide to help gain familiarity with the solutions user interface however, here are some common troubleshooting steps.

#### **7.1.1** Only the image loads, I can't find the other images in the study

Mobility will load as a modal window with the first image presented. For ease, we recommend that you make the browser window full screen to see the worklist, the worklist will display all images in the study and allow for you to search related studies (see <u>Worklist</u>). If the worklist is not displayed select the icon in the bottom left corner to expand the worklist.

#### **7.1.2** I can't find related studies for the Patient

Make sure you have the worklist open (full screen browser). If the worklist is not displayed select the icon in the bottom left corner to expand the worklist.

You will find related studies for that patient if the following two parameters are met:

(1) There are other studies for that patient within that particular Health board's PACS database



(2) The studies are under the same RadIS patient ID. If you want to see other images for the patient, that do not conform to the two parameters, consider using another radiology report in WCP for that patient.

#### **7.1.3** Mobility has frozen or is unresponsive

As a browser solution you may, on rare occasions, experience a network error or unresponsiveness that could be caused by network timeout or security protocols activating. Please close Mobility and relaunch via the radiology report in WCP. If the problem persists, please raise a call with your local service desk for the matter to be reviewed.

#### **7.1.4** I get a HTTP error

As a browser solution you may, on rare occasions, experience a network error or unresponsiveness that could be caused by network issues or security protocols activating. Please close Mobility and relaunch via the radiology report in WCP. If the problem persists, please raise a call with your local service desk for the matter to be reviewed.

#### **7.1.5** I can't expand or collapse the study in worklist

If you have not used the worklist for a period of time, network connectivity may have been lost or security protocols may have activated. If you cannot expand of collapse studies within the worklist please close mobility and relaunch via the radiology report in WCP. If the problem persists, please raise a call with your local service desk for the matter to be resolved.

## 8 DEFINITIONS

Term	Definition
WCP	Welsh Clinical Portal
PACS	Picture Archive Communication System
WRRS	Welsh Results & Reporting Service

#### 9 ATTACHMENTS

N/A