Contents

# AddROI

*(Tags: @FR, @FR008, @UR008, @Analysis)*

## AddCariesROICursorAppearanceChange

*(Tags: @FR008-1, @UR008-1)*

**Given**  I have submitted an image

**When**  click the Add ROI button

**Then**  the Add ROI button changes appearance

**And**  the Cursor changes appearance to a cross hair

## AddCariesROICursorAppearanceReturn

*(Tags: @FR008-2, @UR008-1)*

**Given**  I have selected the Add ROI Button

**When**  I hit select the Add ROI button again or any other button

**Then**  the Add ROI button changes appearance back to original

**And**  the Cursor changes appearance back to default

## AddCariesROI

*(Tags: @FR008-3, @UR008-1)*

**Given**  I have selected the Add ROI Button

**When**  I move the cursor to the image and click

**Then**  a new ROI is display with the arrow point at the mouse click

**And**  pointing away from the nearest tooth centre

**And**  the grade of the ROI is unknown

**And**  the Add ROI button changes appearance back to original

**And**  the Cursor changes appearance back to default

**And**  the new caries ROI is listed in the text report

**And**  the new caries ROI is listed as of unknown grade in the text report

# AnalysisProgressIndicator

*(Tags: @FR, @FR024, @UR022, @Analysis)*

## ShowAnalysisProgress

*(Tags: @FR024-2, @UR022-2)*

**Given**  I have submitted an image for analysis

**When**  the image is displayed

**Then**  the status of the analysis is displayed over the image

**When**  the analysis progresses

**Then**  the status is updated to reflect the stage of the analysis

# CommandLineInterface

*(Tags: @FR, @FR026, @UR024, @Integration, @DesktopOnly)*

## PassImage

*(Tags: @FR026-1, @UR024-1)*

**When**  I request AssistDent from the command line

**And**  the --image option is set to "image8.tif"

**Then**  AssistDent starts

**And**  the image analysed is "image8.tif"

## PassTitle

*(Tags: @FR026-2, @UR024-1)*

**When**  I request AssistDent from the command line

**And**  the --title option is set to "Developer/Dave"

**Then**  AssistDent starts

**And**  the window title contains the text "Developer/Dave"

## CompletePartialExam

*(Tags: @FR026-3)*

**When**  I request AssistDent from the command line

**And**  I use --exam option with a filename of a json file containing a partial exam containing labelled teeth

**Then**  AssistDent starts

**And**  the labelled teeth are visible

**And**  the analysis continues from the fitting teeth edges stage

# CustomerWorkflowEU

*(Tags: @FR, @FR031, @UR029, @Admin, @DesktopOnly)*

## CannotRegisterInCECountry

*(Tags: @FR031-1, @UR029-1)*

**Given**  no licence exists for the current machine

**And**  I start AssistDent

**And**  the user registration form is displayed

**When**  I enter valid details

**And**  I select "Germany" for the country

**Then**  I cannot register

**And**  AssistDent does not start

# CustomerWorkflowUK

*(Tags: @FR, @FR030, @UR028, @Admin, @DesktopOnly)*

## ShowRegistrationForm

*(Tags: @FR030-1, @UR028-1)*

**Given**  no licence exists for the current machine

**When**  I start AssistDent

**Then**  the user registration form is displayed

## CanRegisterInUK

*(Tags: @FR030-2, @UR028-1)*

**Given**  no licence exists for the current machine

**And**  I start AssistDent

**And**  the use registration form is displayed

**When**  I enter valid details

**And**  I select <country> for the country

**Then**  the registration is successful

**And**  AssistDent starts

### Examples:

|  |
| --- |
| country |
| England |
| Wales |
| Scotland |

## TakePaymentUK

*(Tags: @FR030-3, @UR028-2)*

**Given**  I have register a trial licence for a UK user

**When**  I access the purchase licence page

**And**  choose the default price

**Then**  the payment is in GBP

**And**  UK VAT is applied

## PurchaseLicenseExtension

*(Tags: @FR030-4, @UR028-3)*

**When**  I choose the Purchase Upgrade menu option

**And**  I fill in my payment details

**And**  I complete the purchase

**And**  I restart the desktop app

**Then**  the license period is extended by the amount specified for the purchased product

## ViewInvoiceUK

*(Tags: @FR030-5, @UR028-5)*

**Given**  I have paid for a subscription for a UK user

**When**  I access my billing portal

**Then**  I can view an invoice for each month

**And**  the invoice contains the price paid

**And**  the invoice contains the customer name and address

**And**  the invoice contains the VAT amount

**And**  the invoice contains the MIL VAT number

# DeleteROI

*(Tags: @FR, @FR006, @UR006, @Analysis)*

## DeleteROI

*(Tags: @FR006-2, @UR006-1)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select an ROI

**And**  click the delete button corresponding to that image

**Then**  the selected caries ROI will be deleted from the image

**And**  the selected caries will be deleted from the text report

## DeleteROIs

*(Tags: @FR006-3, @UR006-1)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select 2 or more ROIs

**And**  click the delete button corresponding to that image

**Then**  the selected caries ROIs will be deleted from the image

**And**  the selected caries will be deleted from the text report

# DesktopLicensing

*(Tags: @FR, @FR027, @UR025, @Admin, @DesktopOnly)*

## CannotRegisterInNonCECountry

*(Tags: @FR027-1, @UR025-2)*

**Given**  no licence exists for the current machine

**And**  I start AssistDent

**And**  the use registration form is displayed

**When**  I enter valid details

**And**  I select "United States" for the country

**Then**  the registration is unsuccessful

**And**  AssistDent does not start

## RegisterUser

*(Tags: @FR027-2, @UR025-3)*

**Given**  no licence exists for the current machine

**When**  I start the desktop app

**Then**  the user registration form is displayed

**When**  I enter the registration details

**Then**  the desktop app starts

## ExpiredLicenceRestrictsAccess

*(Tags: @FR027-3, @UR025-5)*

**Given**  a licence exists for the current machine

**And**  the licence is expired

**When**  I start the desktop app

**Then**  a message tells me to upgrade

## ExpiredLicenceRedirectsToUpgrade

*(Tags: @FR027-4, @UR025-5)*

**Given**  a trial licence exists for the current machine

**And**  the licence is expired

**When**  I start the desktop app

**Then**  the upgrade trial licence web page is displayed

## ManualUpgradeAvailable

*(Tags: @FR027-5, @UR025-5)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**When**  I start the desktop app

**Then**  the menu includes an option to upgrade

## ManualUpgradeLinksToStore

*(Tags: @FR027-6, @UR025-5)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**And**  I have started the desktop app

**When**  I choose the menu option "Upgrade Licence"

**Then**  the upgrade trial licence web page is displayed

**And**  the choice of upgrade options is appropriate to my country

## ValidLicence

*(Tags: @FR027-7, @UR025-6)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**When**  I start the desktop app

**Then**  the desktop app opens

## DisplayLicence

*(Tags: @FR027-8, @UR025-6)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**When**  I open the About Box

**Then**  the licence key is displayed

**And**  the licence expiry date is displayed

**And**  the licensee is displayed

## EnterNewLicenceKey

*(Tags: @FR027-9, @UR025-7)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**And**  I have started the desktop app

**When**  I open the About Box

**And**  I click Enter Key

**And**  I enter a new valid key from the same CryptoLens product

**Then**  the key is accepted

**When**  I restart the application

**Then**  the application restarts

## EnterNewLicenceKeyNewProduct

*(Tags: @FR027-10, @UR025-7)*

**Given**  a licence exists for the current machine

**And**  the licence is not expired

**And**  I have started the desktop app

**When**  I open the About Box

**And**  I click Enter Key

**And**  I enter a new valid key prefixed with a new product id in the form "{product-id}:{licence-key}"

**Then**  the key is accepted

**When**  I restart the application

**Then**  the application restarts

## ConfigureTrialPeriod

*(Tags: @FR027-11, @UR025-8)*

**Given**  no licence exists for the current machine

**When**  I configure the store app to generate a <num1> day(s) licence

**And**  I register for a trial licence

**Then**  the licence expiry date can be seen in the application

**And**  the expiry date is in <num2> day(s)

### Examples:

|  |  |
| --- | --- |
| num1 | num2 |
| 1 | 1 |
| 7 | 7 |

## EnterInvalidKey

*(Tags: @FR027-12, @UR025-9)*

**Given**  no licence exists for the current machine

**When**  I choose to enter a licence key

**And**  I enter an invalid licence key

**Then**  the application does not start

## EnterValidKey

*(Tags: @FR027-13, @UR025-10)*

**Given**  no licence exists for the current machine

**When**  I choose to enter a licence key

**And**  I enter a valid licence key

**Then**  the application starts

**And**  the key and registered user can be seen in the About Box

## ConfigureMaxMachines

*(Tags: @FR027-14, @UR025-11)*

**Given**  no licence exists for the current machine

**When**  I configure the store app to generate a licence for <max> machines

**And**  I register a trial licence

**Then**  the licence created, when viewed in CryptoLens, is activated for 1 of <max> machines

# DICOMImageFormat

*(Tags: @FR, @FR017, @UR016, @Analysis)*

## CanAnalyseTiffImages

*(Tags: @FR017-1, @UR016-1, @UR016-4)*

**Given**  I have logged in with analysis permissions

**When**  I enter URL <base>/Analysis

**And**  click the Select File area

**And**  browse for a a bitewing image in DICOM format

**And**  submit the image

**Then**  the image is displayed correctly

**And**  the results are displayed

# DisplayImage

*(Tags: @FR, @FR001, @UR001, @Analysis)*

The image shall be displayed on screen

## DisplayImage

*(Tags: @FR001-1, @UR001-1)*

**Given**  a bitewing image

**When**  submitted for analysis

**Then**  the bitewing image is displayed on screen

# DisplayTextReport

*(Tags: @FR, @FR040, @UR038, @Analysis)*

The text analyis report shall be displayed on screen and agree with the image display

## DisplayTextReport

*(Tags: @FR040-1, @UR038-01)*

**Given**  a bitewing image

**When**  submitted for analysis

**Then**  the bitewing analysis is displayed on the image

**And**  the text version of the analysis is displayed on screen

**And**  the text report agrees with the image display

## DisplayTextReportEnamelOnly

*(Tags: @FR040-02, @UR038-01)*

**Given**  I have performed caries detection on an image containing enamel and dentine caries

**And**  include dentine caries is unchecked

**When**  submitted for analysis

**Then**  the bitewing analysis is displayed on the image

**And**  the text version of the analysis is displayed on screen

**And**  the text report contains enamel caries

**And**  the text report does not contain dentine caries

## DisplayTextReportEnamelAndDentine

*(Tags: @FR040-03, @UR038-01)*

**Given**  I have performed caries detection on an image containing enamel and dentine caries

**And**  include dentine caries is checked

**When**  submitted for analysis

**Then**  the bitewing analysis is displayed on the image

**And**  the text version of the analysis is displayed on screen

**And**  the text report contains enamel caries

**And**  the text report contains dentine caries

## TextReportCopyable

*(Tags: @FR040-04, @UR038-02)*

**Given**  a bitewing image

**When**  submitted for analysis

**Then**  the bitewing analysis is displayed on the image

**And**  the text version of the analysis is displayed on screen

**When**  I highlight the text in the report

**And**  I do CTRL+C

**And**  I do CTRL+P into a text editor

**Then**  the report text is copied to the text editor via the clipboard

## ClinicalReportVisible

*(Tags: @FR040-05, @UR038-01)*

**Given**  a bitewing image

**When**  submitted for analysis

**Then**  the bitewing analysis is displayed on the image

**And**  the clinical report is displayed on screen

**And**  the clinical report panel can be dragged and docked to the left edge

**And**  the clinical report panel can be displayed as a window

**And**  the clinical report cannot be closed

# DragAndDropExport

*(Tags: @FR, @FR038, @UR036, @Analysis, @DesktopOnly)*

## ShowDragCursor

*(Tags: @FR037-01, @UR036-01)*

**Given**  an image has been analysed in AssistDent

**When**  I click and drag the right-mouse button

**Then**  the cursor is updated to show I am dragging something

## DraggedExportFilename

*(Tags: @FR037-02, @UR036-01)*

**Given**  an image has been analysed in AssistDent

**When**  I click and drag the right-mouse button

**And**  drop the image onto an app which supports drag and drop operations

**Then**  a file appears in the app

**And**  the filename incorporates the filename of the original image file

## CanDropIntoOtherAppEnamelOnly

*(Tags: @FR037-03, @UR036-01)*

**Given**  an image has been analysed in AssistDent which contains enamel and dentine caries

**And**  include dentine caries is unchecked

**When**  I click and drag the right-mouse button

**And**  drop the image onto an app which supports drag and drop operations

**Then**  a file appears in the app

**And**  the file contains the x-ray image

**And**  the file contains the enamel caries annotations and NOT the dentine annotations

## CanDropIntoOtherAppEnamelAndDentine

*(Tags: @FR037-04, @UR036-01)*

**Given**  an image has been analysed in AssistDent which contains enamel and dentine caries

**And**  include dentine caries is checked

**When**  I click and drag the right-mouse button

**And**  drop the image onto an app which supports drag and drop operations

**Then**  a file appears in the app

**And**  the file contains the x-ray image

**And**  the file contains the enamel caries annotations and the dentine annotations

# DragAndDropImport

*(Tags: @FR, @FR037, @UR035, @Analysis, @DesktopOnly)*

## AcceptDraggedImage

*(Tags: @FR037-01, @UR035-01)*

**Given**  AssistDent is started

**When**  I drag an image from another application

**And**  drop the image into AssistDent

**Then**  the image is loaded and analysed

## HandleNonImage

*(Tags: @FR037-02, @UR035-01)*

**Given**  AssistDent is started

**When**  I drag a non-image file from another application

**And**  drop the file into AssistDent

**Then**  nothing happens

## IgnoreMultipleImages

*(Tags: @FR037-03, @UR035-01)*

**Given**  AssistDent is started

**When**  I drag 2 or more images from another application

**And**  drop the files into AssistDent

**Then**  nothing happens

## IgnoreWhenProcessing

*(Tags: @FR037-04, @UR035-01)*

**Given**  AssistDent is in the middle analysing an image

**When**  I drag an image from another application

**Then**  AssistDent does not allow me to drop it in for analysis

## AcceptAfterAnalysisCompleted

*(Tags: @FR037-05, @UR035-01)*

**Given**  Analysis is completed

**When**  I drag an image from another application

**Then**  the image is loaded and analysed

# EnableDentine

*(Tags: @FR, @FR039, @UR037, @Analysis, @DesktopOnly)*

## ChangeDentineDisplay

*(Tags: @FR039-01, @UR037-01)*

**Given**  I open the settings window

**And**  change the option to include dentine caries

**When**  I restart AssistDent

**And**  open the settings window

**Then**  my preference has been remembered

## ShowDentineCaries

*(Tags: @FR039-02, @UR037-01)*

**Given**  I have enabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are indicated in the GUI

**And**  the enamel caries are indicated in the GUI

**And**  the dentine caries are indicated in the text report

**And**  the enamel caries are indicated in the text report

## HideDentineCaries

*(Tags: @FR039-03, @UR037-02)*

**Given**  I have disabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are not indicated in the GUI

**And**  the enamel caries are indicated in the GUI

**And**  the dentine caries are not indicated in the text report

**And**  the enamel caries are indicated in the text report

## AllowAssignmentOfDentineGrades

*(Tags: @FR039-04, @UR037-01)*

**Given**  I have enabled the display of dentine caries using the settings window

**And**  I open an image containing both enamel and dentine caries

**And**  dentine caries are indicated

**When**  I left-click on a dentine caries ROI

**Then**  the grades menu is displayed

**And**  the grade can be set to D

## DenyAssignmentOfDentineGrades

*(Tags: @FR039-05, @UR037-02)*

**Given**  I have disabled the display of dentine caries using the settings window

**And**  I open an image containing both enamel and dentine caries

**When**  I left-click on a caries ROI

**Then**  the grades menu is displayed

**And**  the grade cannot be set to D

## DynamicAllowAssignmentOfDentineGrades

*(Tags: @FR039-06, @UR037-02)*

**Given**  I have disabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**When**  I left-click on a caries ROI

**Then**  the grades menu is displayed

**And**  the grade cannot be set to D

**When**  I enable dentine caries using the settings window

**When**  I left-click on a caries ROI

**Then**  the grades menu is displayed

**And**  the grade can be set to D

## DynamicDenyAssignmentOfDentineGrades

*(Tags: @FR039-07, @UR037-02)*

**Given**  I have enabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**When**  I left-click on a caries ROI

**Then**  the grades menu is displayed

**And**  the grade can be set to D

**When**  I disable dentine caries using the settings window

**When**  I left-click on a caries ROI

**Then**  the grades menu is displayed

**And**  the grade cannot be set to D

## DynamicShowDentineCariesUpdateGUI

*(Tags: @FR039-08, @UR037-03)*

**Given**  I have disabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are not indicated in the GUI

**And**  the enamel caries are indicated in the GUI

**When**  I enable dentine caries using the settings window

**Then**  the dentine caries are indicated in the GUI

**And**  the enamel caries are indicated in the GUI

## DynamicHideDentineCariesUpdateGUI

*(Tags: @FR039-09, @UR037-04)*

**Given**  I have enabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are indicated in the GUI

**And**  the enamel caries are indicated in the GUI

**When**  I disable dentine caries using the settings window

**Then**  the dentine caries are not indicated in the GUI

**And**  the enamel caries are indicated in the GUI

## DynamicShowDentineCariesUpdateTextReport

*(Tags: @FR039-10, @UR037-03)*

**Given**  I have disabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are indicated in the text report

**And**  the enamel caries are indicated in the text report

**When**  I enable dentine caries using the settings window

**Then**  the dentine caries are indicated in the text report

**And**  the enamel caries are indicated in the text report

## DynamicHideDentineCariesUpdateTextReport

*(Tags: @FR039-11, @UR037-04)*

**Given**  I have enabled the display of caries using the settings window

**When**  I open an image containing both enamel and dentine caries

**Then**  the dentine caries are indicated in the text report

**And**  the enamel caries are indicated in the text report

**When**  I disable dentine caries using the settings window

**Then**  the dentine caries are not indicated in the text report

**And**  the enamel caries are indicated in the text report

# FolderWatcher

*(Tags: @FR, @FR033, @UR030, @Admin, @DesktopOnly)*

## StartsAutomaticallyAndRunsInSystemTray

*(Tags: @FR033-01, @UR030-02)*

**When**  I log in to Windows

**Then**  the Folder Watcher starts automatically

**And**  an app appears in the system tray

## AutomaticallyAnalyzes

*(Tags: @FR033-02, @UR030-01)*

**Given**  the folder watcher is enabled

**When**  I copy an image file to the watched folder

**Then**  AssistDent automatically starts and analyzes the image

## DisableAnalysis

*(Tags: @FR033-03, @UR030-03)*

**Given**  the folder watcher is enabled

**When**  I access the settings via the system tray app

**And**  disable "automatic assist"

**And**  I copy an image file to the watched folder

**Then**  AssistDent does not start automatically

## ConfigureWatchedFolder

*(Tags: @FR033-04, @UR030-04)*

**Given**  the folder watcher is enabled

**When**  the folder watcher is configured to watch a new folder

**Then**  the new folder is displayed

**When**  I copy an image file to the previously watched folder

**Then**  AssistDent does not start automatically

**When**  I copy an image file to the watched folder

**Then**  AssistDent automatically starts and analyses the image

## IgnoreMultipleFiles

*(Tags: @FR033-05, @UR030-01)*

**Given**  the folder watcher is enabled

**When**  I copy 2 or more image files at once to the folder

**Then**  AssistDent does not start

**And**  an informative message is displayed

# GenerateAndViewFeedback

*(Tags: @FR, @FR022, @UR020, @UR021, @Admin)*

## AccessSupport

*(Tags: @FR022-7, @UR021-3, @DeskopOnly)*

**Given**  I am using AssistDent

**When**  I choose the contact support option from the main dropdown menu

**Then**  I am directed to the support page

# ImageExport

*(Tags: @FR, @FR034, @UR031, @Analysis, @DesktopOnly)*

## ExportImageButton

*(Tags: @FR034-01, @UR031-01)*

**Given**  I have performed caries detection

**When**  I click the Export button

**Then**  an image file is created

**And**  that image contains the source X-Ray and annotated caries ROIs

## ExportROIsEnamelOnly

*(Tags: @FR034-02, @UR031-01)*

**Given**  I have performed caries detection on an image containing dentine caries

**And**  include dentine caries is unchecked

**When**  I click the Export button

**Then**  an image file is created

**And**  that image contains the source X-Ray and annotated enamel caries ROIs

**And**  dentine caries ROI are NOT displayed

## ExportROIsEnamelAndDentine

*(Tags: @FR034-03, @UR031-01)*

**Given**  I have performed caries detection on an image containing dentine caries

**And**  include dentine caries is checked

**When**  I click the Export button

**Then**  an image file is created

**And**  that image contains the source X-Ray and annotated enamel caries ROIs

**And**  dentine caries ROI are displayed

## ExportToNewLocation

*(Tags: @FR034-04, @UR031-01)*

**Given**  I have performed caries detection

**And**  I configure the export to be created in a new folder

**When**  I click the Export button

**Then**  an image file is created in the new location

**And**  that image contains the source X-Ray and annotated caries ROIs

## ExportHasUniqueName

*(Tags: @FR034-05, @UR031-01)*

**Given**  I have performed caries detection

**When**  I click the Export button

**Then**  an image file is created

**And**  that image file has a unique name based on the date and time

**And**  that name of the original input image is included in the name

## ExportCreatedOnExit

*(Tags: @FR034-06, @UR031-02)*

**Given**  I have performed caries detection

**And**  I have configured AssistDent to export the image on exit

**When**  I close AssistDent

**Then**  an image file is created

**And**  that image contains the source X-Ray and annotated caries ROIs

## SnapshotImage

*(Tags: @FR034-07, @UR031-03)*

**Given**  I have performed caries detection

**When**  I click the Snapshot button

**Then**  an image file is copied to the clipboard

**And**  that image contains the source X-Ray and annotated caries ROIs

## RunCommandAfterExport

*(Tags: @FR034-08, @UR031-04)*

**Given**  I have performed caries detection

**And**  I have configured AssisDent to run a command after export

**When**  I click the Export button

**Then**  the export is created

**And**  the configured command is executed

## ExportToVistaSoft

*(Tags: @FR034-09, @UR031-04)*

**Given**  I have performed caries detection

**And**  I have configured AssisDent to send to VistaSoft after export

**When**  I click the Export button

**Then**  the export is created

**And**  the image appears alongside the parent image in VistaSoft

## ExportAs

*(Tags: @FR034-10, @UR031-01)*

**Given**  I have performed caries detection

**When**  I click the ExportAs option

**Then**  the file save dialog box opens

**And**  the export image file is created

**And**  the export image file is in the specified folder with the specified filename

## ExportAsCancel

*(Tags: @FR034-11, @UR031-01)*

**Given**  I have performed caries detection

**When**  I click the ExportAs option

**And**  I choose the cancel button

**Then**  no export image file is created

## ExportNoExam

*(Tags: @FR034-12, @UR031-01)*

**Given**  I started AssistDent but not loaded an image for analysis

**When**  I click the Export button

**Then**  nothing happens

## ExportAsNoExam

*(Tags: @FR034-13, @UR031-01)*

**Given**  I started AssistDent but not loaded an image for analysis

**When**  I click the ExportAs option

**Then**  no file save dialog box opens

**And**  nothing happens

# ImageID

*(Tags: @FR, @FR025, @Analysis)*

## ShowImageIDFilename

*(Tags: @FR025-1, @UR023-1)*

**Given**  I have submitted an image for analysis

**Then**  the image ID is shown

**And**  the image ID displays the image filename

# ImageMagnifer

*(Tags: @FR, @FR004, @UR004, @Analysis)*

With the mouse button held down, the section of the image directly under the mouse pointer will be zoomed to 3x magnification

## ShowMagnifer

*(Tags: @FR004-1, @UR004-1)*

**Given**  a bitewing image displayed on screen

**When**  I hover the mouse pointer over a location in the image

**And**  I hold the mouse button down

**Then**  the magnifier should be displayed

**And**  the image location should be displayed at 3x magnification

## MoveMagnifer

*(Tags: @FR004-2, @UR004-1)*

**Given**  a bitewing image displayed on screen

**And**  the magnifier is currently displayed

**When**  I move the mouse pointer to another location in the image

**Then**  the image location should be updated

## HideAnnotationInMagnifer

*(Tags: @FR004-3, @UR004-2)*

**Given**  a bitewing image displayed on screen

**And**  the magnifier is currently displayed

**And**  the magnifier is positioned over an annotation

**Then**  no annotation should be displayed in the magnification

## MagnifierConsistentSize

*(Tags: @FR004-4, @UR004-1)*

**Given**  a bitewing image file <image> with image width <width>

**When**  caries detection is complete

**Then**  GUI magnifier feature is a sensible and consistent size

### Examples:

|  |  |
| --- | --- |
| image | width |
| TestData\images\testImages\variable\_resolution\SC22\_500\_pixel\_width.jpg | 500 |
| TestData\images\testImages\variable\_resolution\SC22\_1000\_pixel\_width.jpg | 1000 |
| TestData\images\testImages\variable\_resolution\SC22\_2000\_pixel\_width.jpg | 2000 |

# LegalInformationPage

*(Tags: @FR, @FR015, @UR015, @Labelling)*

## CanAccessClinicalUse

*(Tags: @FR015-2, @UR015-1, @DesktopOnly)*

**When**  I open the About menu option

**Then**  a tab of clinical use is displayed

**And**  it contains the clinical use information

## CanAccessInstructionsForUse

*(Tags: @FR015-4, @UR015-2, @DesktopOnly)*

**When**  I open the User Instructions menu option

**Then**  the Instructions for Use is displayed in electronic format

**And**  it contains the clinical use information

# OpenImage

*(Tags: @FR, @FR036, @UR034, @Admin, @DesktopOnly)*

## OpenImage

*(Tags: @FR035-01, @UR034-01)*

**Given**  I have started AssistDent from the desktop shortcut

**When**  I select an image

**Then**  the selected image opens in AssistDent

## OpenImage

*(Tags: @FR035-01, @UR034-02)*

**Given**  I have started AssistDent from the start menu

**When**  I select an image

**Then**  the selected image opens in AssistDent

## DontOpenNonImage

*(Tags: @FR035-02, @UR034-03)*

**Given**  I have started AssistDent from the desktop shortcut

**When**  I select a text file

**Then**  an error message is displayed

## CancelOpenImage

*(Tags: @FR035-03, @UR034-03)*

**Given**  I have analysed an image in AssistDent

**When**  I click the Browse Image button

**And**  click cancel

**Then**  the previous image is still active

## OpenSecondImage

*(Tags: @FR035-04, @UR034-03)*

**Given**  I have analysed an image in AssistDent

**When**  I click the Open Image button

**And**  select an image

**Then**  the selected image opens in AssistDent

# ProgressDisplay

*(Tags: @FR, @FR028, @UR026, @Analysis, @DesktopOnly)*

## ShowAnalysisFeedback

*(Tags: @FR028-1, @UR026-1)*

**When**  I submit an image for analysis

**Then**  the app displays status updates

**And**  the updates are clearly visible

# RadiographQualityGrading

*(Tags: @FR, @FR042, @UR040, @Analysis)*

## ShowResolutionQualityMetric

*(Tags: @FR042-1, @UR040-1)*

**Given**  a bitewing radiograph file <image> with resolution <width> and <height>

**When**  AssistDent analyses the radiograph

**Then**  the radiograph report displays the resolution <width> and <height>

**And**  the resolution category <rating>

**And**  the resolution pass/fail <status> based on the <width>

### Examples:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| image | width | height | rating | status |
| TestData\images\testImages\variable\_resolution\SC22\_500\_pixel\_width.jpg | 500 | 389 | very low | fail |
| TestData\images\testImages\variable\_resolution\SC22\_800\_pixel\_width.jpg | 800 | 622 | very low | fail |
| TestData\images\testImages\variable\_resolution\SC22\_1000\_pixel\_width.jpg | 1000 | 778 | low | pass |
| TestData\images\testImages\variable\_resolution\SC22\_1220\_orig\_width.jpg | 1220 | 950 | medium | pass |
| TestData\images\testImages\variable\_resolution\SC22\_1500\_pixel\_width.jpg | 1500 | 1168 | medium | pass |
| TestData\images\testImages\variable\_resolution\SC22\_1750\_pixel\_width.jpg | 1750 | 1362 | medium | pass |
| TestData\images\testImages\variable\_resolution\SC22\_2000\_pixel\_width.jpg | 2000 | 1557 | high | pass |
| TestData\images\testImages\variable\_resolution\SC22\_3000\_pixel\_width.jpg | 3000 | 2336 | very high | pass |

## ShowGrayScaleQualityMetric

*(Tags: @FR042-2, @UR040-2)*

**Given**  a bitewing radiograph file <image> with gray scale flag <gray>

**When**  AssistDent analyses the radiograph

**Then**  the radiograph report displays the gray scale flag <gray>

**And**  the gray scale pass/fail <status> based on the <gray> flag

### Examples:

|  |  |  |
| --- | --- | --- |
| image | gray | status |
| TestData\images\testImages\grayscale\_vs\_colour\SC22\_exported.tif | false | fail |
| TestData\images\testImages\grayscale\_vs\_colour\SC22\_orig.tif | true | pass |

## ShowContrastQualityMetric

*(Tags: @FR042-3, @UR040-3)*

**Given**  a bitewing radiograph file <image> with contrast metric <contrast>

**When**  AssistDent analyses the radiograph

**Then**  the radiograph report displays the contrast metric <contrast>

**And**  the contrast category <rating>

**And**  the contrast pass/fail <status> based on the <contrast>

### Examples:

|  |  |  |  |
| --- | --- | --- | --- |
| image | contrast | rating | status |
| TestData\images\testImages\variable\_contrast\SC22\_0.2\_contrast.jpg | 11 | very low | fail |
| TestData\images\testImages\variable\_contrast\SC22\_0.5\_contrast.jpg | 26 | very low | fail |
| TestData\images\testImages\variable\_contrast\SC22\_0.75\_contrast.jpg | 40 | low | pass |
| TestData\images\testImages\variable\_contrast\SC22\_1.0\_orig\_contrast.jpg | 53 | medium | pass |
| TestData\images\testImages\variable\_contrast\SC22\_1.2\_contrast.jpg | 60 | high | pass |
| TestData\images\testImages\variable\_contrast\SC22\_1.5\_contrast.jpg | 69 | high | pass |
| TestData\images\testImages\variable\_contrast\SC22\_2.5\_contrast.jpg | 84 | very high | pass |
| TestData\images\testImages\variable\_contrast\SC22\_3.0\_contrast.jpg | 88 | very high | pass |

## ShowBlurQualityMetric

*(Tags: @FR042-4, @UR040-4)*

**Given**  a bitewing radiograph file <image> with blur metric <blur>

**When**  AssistDent analyses the radiograph

**Then**  the radiograph report displays the blur metric <blur>

**And**  the blur category <rating>

**And**  the blur pass/fail <status> based on the <blur>

### Examples:

|  |  |  |  |
| --- | --- | --- | --- |
| image | blur | rating | status |
| TestData\images\testImages\variable\_blur\SC22\_1.0\_orig\_blur.jpg | 51 | medium | pass |
| TestData\images\testImages\variable\_blur\SC22\_1.5\_blur.jpg | 72 | high | pass |
| TestData\images\testImages\variable\_blur\SC22\_2.0\_blur.jpg | 84 | very high | fail |
| TestData\images\testImages\variable\_blur\SC22\_3.0\_blur.jpg | 100 | very high | fail |
| TestData\images\testImages\variable\_blur\SC22\_5.0\_blur.jpg | 100 | very high | fail |

# RepositionROI

*(Tags: @FR, @FR009, @UR009, @Analysis)*

## MoveAndDragROI

*(Tags: @FR009-01, @UR009-1)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I click and drag an ROI

**Then**  the ROI and caries grade label will move with the mouse

**And**  the ROI are deselected

**And**  the text report is updated correctly based on the new caries location

## MoveROIToNewToothDistal

*(Tags: @FR009-02, @UR009-1)*

**Given**  an analysed bitewing image which contains distal edge caries ROIs

**When**  I click and drag an ROI

**And**  move the mouse to a new distal edge on a different tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new distal edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the distal edge

**And**  the caries tooth number is updated in the text report based on the new distal edge tooth location

**And**  the caries distal edge status is unchanged in the text report

## MoveROIToNewToothMesial

*(Tags: @FR009-03, @UR009-1)*

**Given**  an analysed bitewing image which contains mesial edge caries ROIs

**When**  I click and drag an ROI

**And**  move the mouse to a new mesial edge on a different tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new mesial edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the mesial edge

**And**  the caries tooth number is updated in the text report based on the new mesial edge tooth location

**And**  the caries mesial edge status is unchanged in the text report

## MoveROIToNewToothDistalToMesial

*(Tags: @FR009-04, @UR009-1)*

**Given**  an analysed bitewing image which contains distal edge caries ROIs

**When**  I click and drag an ROI

**And**  move the mouse to a new mesial edge on a different tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new mesial edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the mesial edge

**And**  the caries tooth number is updated in the text report based on the new mesial edge tooth location

**And**  the caries distal edge status is updated to mesial in the text report

## MoveROIToNewToothMesialToDistal

*(Tags: @FR009-05, @UR009-1)*

**Given**  an analysed bitewing image which contains mesial edge caries ROIs

**When**  I click and drag an ROI

**And**  move the mouse to a new distal edge on a different tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new distal edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the distal edge

**And**  the caries tooth number is updated in the text report based on the new distal edge tooth location

**And**  the caries mesial edge status is updated to distal in the text report

## FlipROIUsingButton

*(Tags: @FR009-06, @UR009-2)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select an ROI

**And**  click the flip button

**Then**  the selected caries ROI will be flipped

**And**  the ROI becomes deselected

**And**  the caries tooth number is unchanged in the text report

**And**  the caries distal/mesial edge status is updated in the text report based on the new direction

## FlipROIsUsingButton

*(Tags: @FR009-07, @UR009-2)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select 2 or more ROIs

**And**  click the flip button

**Then**  the selected caries ROIs will be flipped

**And**  the ROIs become deselected

**And**  the caries tooth numbers are unchanged in the text report

**And**  the caries distal/mesial edges are updated in the text report based on the new direction

## FlipROIDistalToMesialUsingMouse

*(Tags: @FR009-08, @UR009-3)*

**Given**  an analysed bitewing image which contains distal edge caries ROIs

**When**  I click and drag an ROI arrow

**And**  move the mouse to the mesial edge on the same tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new mesial edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the mesial edge

**And**  the caries tooth number is unchanged in the text report

**And**  the caries distal edge status is updated to mesial in the text report

## FlipROIMesialToDistalUsingMouse

*(Tags: @FR009-09, @UR009-3)*

**Given**  an analysed bitewing image which contains mesial edge caries ROIs

**When**  I click and drag an ROI

**And**  move the mouse to the distal edge on the same tooth

**And**  release the mouse

**Then**  the ROI and grade label will stay at its new distal edge tooth location

**And**  the ROI are deselected

**And**  the ROI points away from the tooth centre to the distal edge

**And**  the caries tooth number is unchanged in the text report

**And**  the caries mesial edge status is updated to distal in the text report

## DoubleFlipROIUsingButton

*(Tags: @FR009-10, @UR009-2)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select an ROI

**And**  click the flip button twice

**Then**  the selected caries ROI will be flipped once

**And**  the ROI becomes deselected

**And**  the caries tooth number is unchanged in the text report

**And**  the caries distal/mesial edge status is updated in the text report based on the new direction

## DoubleFlipROIsUsingButton

*(Tags: @FR009-11, @UR009-2)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I select 2 or more ROIs

**And**  click the flip button twice

**Then**  the selected caries ROI will be flipped once

**And**  the ROIs become deselected

**And**  the caries tooth numbers are unchanged in the text report

**And**  the caries distal/mesial edges are updated in the text report based on the new direction

# ROIIndicator

*(Tags: @FR, @FR003, @UR003, @Analysis)*

The location of caries regions of interest shall be displayed in position on the image and in the text report.

## ROIIndicators

*(Tags: @FR003-1, @UR003-1)*

**Given**  a bitewing image known to contain caries

**When**  caries detection is complete

**Then**  caries ROIs are indicated over the image

**And**  caries are listed in the text report

**And**  caries are associated with the correct tooth in the text report

## ROIArrows

*(Tags: @FR003-2, @UR003-1)*

**Given**  a bitewing image known to contain caries

**When**  caries detection is complete

**Then**  caries ROIs are indicated by arrows

**And**  the arrows do not obscure the tooth edge

**And**  the arrow locations agree with the tooth labels listed in the text report

## ROIEasilySeen

*(Tags: @FR003-3, @UR003-1)*

**Given**  a bitewing image known to contain caries

**When**  caries detection is complete

**Then**  caries ROI indicators are a consistent size

**And**  caries ROI indicators are brightly coloured

## ROIConsistentSize

*(Tags: @FR003-4, @UR003-1)*

**Given**  a bitewing image file <image> with image width <width>

**When**  caries detection is complete

**Then**  caries ROI GUI indicators are a sensible and consistent size

### Examples:

|  |  |
| --- | --- |
| image | width |
| TestData\images\testImages\variable\_resolution\SC22\_500\_pixel\_width.jpg | 500 |
| TestData\images\testImages\variable\_resolution\SC22\_1000\_pixel\_width.jpg | 1000 |
| TestData\images\testImages\variable\_resolution\SC22\_2000\_pixel\_width.jpg | 2000 |

## ROIGrades

*(Tags: @FR003-5, @UR003-2)*

**Given**  a bitewing image known to contain caries of different grades

**When**  caries detection is complete

**Then**  caries ROI indicators for different grades are distinguishable

**And**  caries grade is indicated in the text report.

## EditCariesGrade

*(Tags: @FR003-6, @UR003-2, @DesktopOnly)*

**Given**  caries ROI are displayed on the image and in the text report

**When**  I click on the ROI label

**Then**  a menu allowing me to change the grade appears

**And**  I can choose a new grade

**And**  the grade is updated with the new choice

**And**  the grade is updated in the text report

# SeeWhatsNew

*(Tags: @FR, @FR029, @UR027, @Labelling, @DesktopOnly)*

## SeeWhatsNewOnStartup

*(Tags: @FR029-1, @UR027-1)*

**Given**  I have not dismissed the news for the version installed

**When**  I start AssistDent

**Then**  the what's new form is displayed

## SeeWhatsNewAllVersions

*(Tags: @FR029-2, @UR027-1)*

**Given**  an upgrade of AssistDent from the previous version

**And**  the new features were previously dismissed

**When**  I start AssistDent

**Then**  the what's new form is displayed

**And**  the what's new form contains the new features

**And**  the new features apply only to the current version

## SeeWhatsNewAllVersions

*(Tags: @FR029-3, @UR027-1)*

**Given**  a clean install of AssistDent with no settings files

**When**  I start AssistDent

**Then**  the what's new form is displayed

**And**  the what's new form contains the new features

**And**  the new features apply to the current version and every previous version

## DimissAndDontShowAgain

*(Tags: @FR029-4, @UR027-2)*

**Given**  I have not dismissed the news for the version installed

**And**  I start AssistDent

**And**  the what's new form is displayed

**When**  I check the "Don't show me this again" checkbox

**And**  restart AssistDent

**Then**  AssistDent starts

**And**  the what's new form is not displayed

## SeeWhatsNewAfterStartup

*(Tags: @FR029-5, @UR027-3)*

**Given**  I have started AssistDent

**When**  I access the "See What' New" menu option

**Then**  the what's new form is displayed

# ShellIntegration

*(Tags: @FR, @FR035, @UR033, @Admin, @DesktopOnly)*

## OpenWith

*(Tags: @FR035-01, @UR033-01)*

**Given**  I have an image file

**When**  in Explorer I right click choose open with and find AssistDent.exe

**Then**  the image opens in AssistDent

## DontOpenNonImage

*(Tags: @FR035-02, @UR033-01)*

**Given**  I have a text file

**When**  in Explorer I right click choose open with and find AssistDent.exe

**Then**  nothing happens

## DontOpenMultipleImages

*(Tags: @FR035-03, @UR033-01)*

**Given**  I have multiple image files

**When**  in Explorer I right click choose open with and find AssistDent.exe

**Then**  nothing happens

## OpenWith

*(Tags: @FR035-04, @UR033-02)*

**Given**  I have an image file

**When**  in Explorer I right click choose Open With AssistDent

**Then**  the image opens in AssistDent

## DontOpenNonImage

*(Tags: @FR035-05, @UR033-02)*

**Given**  I have a text file

**When**  in Explorer I right click

**Then**  the Open With AssistDent menu option is not visible

## DontOpenMultipleImages

*(Tags: @FR035-06, @UR033-02)*

**Given**  I have multiple image files

**When**  in Explorer I right click

**Then**  the Open With AssistDent menu option is not visible

# TextReportExport

*(Tags: @FR, @FR041, @UR039, @Analysis)*

## ExportTextReportAndImageButton

*(Tags: @FR041-01, @UR039-01)*

**Given**  I have performed caries detection

**When**  I click the Export button

**Then**  an analysis image file is created

**And**  an analysis text report file is created

**And**  the text report file agrees with the image file

**And**  the text report contains a warning to review the exported image

## ExportTextReportEnamelOnly

*(Tags: @FR041-02, @UR039-01)*

**Given**  I have performed caries detection on an image containing enamel and dentine caries

**And**  include dentine caries is unchecked

**When**  I click the Export button

**Then**  an text report file is created

**And**  the text report contains enamel caries

**And**  the text report does not contain dentine caries

**And**  the text report contains a warning to review the exported image

## ExportTextReportEnamelAndDentine

*(Tags: @FR041-03, @UR039-01)*

**Given**  I have performed caries detection on an image containing dentine caries

**And**  include dentine caries is checked

**When**  I click the Export button

**Then**  an text report file is created

**And**  the text report contains enamel caries

**And**  the text report contains dentine caries

**And**  the text report contains a warning to review the exported image

## ExportTextReportToNewLocation

*(Tags: @FR041-04, @UR039-01)*

**Given**  I have performed caries detection

**And**  I configure the export to be created in a new folder

**When**  I click the Export button

**Then**  an analysis image file is created in the new location

**And**  an text report file is created in the new location

**And**  the text report file agrees with the image file

**And**  the text report contains a warning to review the exported image

## ExportTextReportHasUniqueName

*(Tags: @FR041-05, @UR039-01)*

**Given**  I have performed caries detection

**When**  I click the Export button

**Then**  an image file is created

**And**  that image file has a unique name based on the date and time

**And**  that name of the original input image is included in the name

**And**  the text report file has the same name, but the file extension is ".txt"

**And**  the text report file agrees with the image file

**And**  the text report contains a warning to review the exported image

## ExportTextReportCreatedOnExit

*(Tags: @FR041-06, @UR039-02)*

**Given**  I have performed caries detection

**And**  I have configured AssistDent to export the image on exit

**When**  I close AssistDent

**Then**  an image file is created

**And**  a text report file is created

**And**  the text report file agrees with the image file

**And**  the text report contains a warning to review the exported image

## ExportTextReportAs

*(Tags: @FR041-07, @UR039-01)*

**Given**  I have performed caries detection

**When**  I click the ExportAs option

**Then**  the file save dialog opens

**And**  the export image file is created

**And**  the export image file is in the specified folder with the specified filename

**And**  the text report file has the same name, but the file extension is ".txt"

**And**  the text report file agrees with the image file

**And**  the text report contains a warning to review the exported image

## ExportTextReportAsCancel

*(Tags: @FR041-08, @UR039-01)*

**Given**  I have performed caries detection

**When**  I click the ExportAs option

**And**  I choose the cancel button

**Then**  no export image file is created

**And**  no export text report file is created

# ToggleAnnotation

*(Tags: @FR, @FR007, @UR007, @Analysis)*

## HideImageAnnotation

*(Tags: @FR007-2, @UR007-1)*

**Given**  an analysed bitewing image which contains caries ROIs

**When**  I click the corresponding hide annotation button

**Then**  the tooth indicators are hidden

**And**  the caries ROI indicators are hidden

**And**  the hide annotation button is replaced with a show annotation button

## RestoreImageAnnotation

*(Tags: @FR007-3, @UR007-2)*

**Given**  an analysed bitewing image which contains caries ROIs

**And**  the annotation is currently hidden

**When**  I click the corresponding show annotation button

**Then**  the tooth indicators are displayed

**And**  the caries ROI indicators are displayed

**And**  the show annotation button is replaced with a hide annotation button

# ToothIndicator

*(Tags: @FR, @FR002, @UR002, @Analysis)*

Detected teeth shall be displayed in position over the image

and the text report lists the detected teeth

## ToothIndicators

*(Tags: @FR002-1, @UR002-1)*

**Given**  a bitewing image known to contain adult teeth

**When**  caries detection is complete

**Then**  the detected teeth are displayed on the image

**And**  identifiers for the teeth are shown

**And**  the identifiers provide unique identification for each tooth

**And**  the detected teeth are listed in the text report

## ToothIndicators

*(Tags: @FR002-2, @UR002-1)*

**Given**  a bitewing image file <image> with image width <width>

**When**  caries detection is complete

**Then**  the detected teeth are displayed on the image

**Then**  caries ROI tooth labels are a sensible and consistent size

**And**  the detected teeth are listed in the text report

### Examples:

|  |  |
| --- | --- |
| image | width |
| TestData\images\testImages\variable\_resolution\SC22\_500\_pixel\_width.jpg | 500 |
| TestData\images\testImages\variable\_resolution\SC22\_1000\_pixel\_width.jpg | 1000 |
| TestData\images\testImages\variable\_resolution\SC22\_2000\_pixel\_width.jpg | 2000 |

## EditToothQuadrant

*(Tags: @FR002-2, @UR002-2, @DesktopOnly)*

**Given**  identifier for the teeth are displayed on the image

**When**  I click on the tooth quadrant

**Then**  a menu allowing me to change the quadrant appears

**And**  I can choose a new quadrant

**And**  the label is updated with the new quadrant value

**And**  the tooth quadrant in the detected teeth list of the text report is also updated

## EditToothNumber

*(Tags: @FR002-3, @UR002-3, @DesktopOnly)*

**Given**  identifier for the teeth are displayed on the image

**When**  I click on the tooth number

**Then**  a menu allowing me to change the number appears

**And**  I can choose a new number

**And**  the label is updated with the new number value

**And**  the tooth number in the detected teeth list of the text report is also updated

# UpdateClient

*(Tags: @FR, @FR032, @UR024, @Admin, @DesktopOnly)*

## UpdateNotAvailable

*(Tags: @FR032-1, @UR024-1)*

**Given**  an update is not available

**When**  I start the app

**Then**  the app starts

## UpdateAvailable

*(Tags: @FR032-2, @UR024-2)*

**Given**  an update is available

**When**  I start the app

**Then**  the app starts

**And**  a message is displayed

**And**  the message indicates the availability of an update

## UpdateLinksToDownload

*(Tags: @FR032-3, @UR024-3)*

**Given**  an update is available

**When**  I start the app

**And**  the update message is displayed

**And**  I click Yes to download

**Then**  I am redirected to the latest version's download page

## IgnoreLatestVersion

*(Tags: @FR032-4, @UR024-4)*

**Given**  an update is available

**When**  I start the app

**And**  the update message is displayed

**Then**  I can click the checkbox to hide the warning

## HideNotificationsForIgnoredLatestVersion

*(Tags: @FR032-5, @UR024-5)*

**Given**  an update is available

**And**  I have requested to ignore the latest version

**When**  I start the app

**Then**  the app starts normally

## ShowNotificationsAfterIgnoringPreviousRelease

*(Tags: @FR032-6, @UR024-6)*

**Given**  an update is available

**And**  I have requested to ignore a previous version

**When**  I start the app

**Then**  the update message is displayed

## DisableUpdateWarningForPriorRelease

*(Tags: @FR032-7, @UR024-7)*

**Given**  the upgrade version is configured in the store app to the prior release

**When**  I start the prior release of AssistDent

**Then**  no update message is displayed

## EnableUpdateWarningForPriorRelease

*(Tags: @FR024-8, @UR024-8)*

**Given**  the upgrade version is configured in the store app to the current release

**And**  I have not previously ignored an upgrade

**When**  I start the prior release of AssistDent

**Then**  the update message is displayed

# UserAccountLicensing

*(Tags: @FR, @FR043, @UR041, @Admin, @DesktopOnly)*

## LoginEnabled

*(Tags: @FR043-01, @UR041-01)*

**Given**  user account licensing is enabled on the store app

**And**  there is no licence installed

**When**  I start AssistDent

**Then**  I see the login window

## LoginDisabled

*(Tags: @FR043-02, @UR041-01)*

**Given**  user account licensing is disabled on the store app

**And**  there is no licence installed

**When**  I start AssistDent

**Then**  I see the registration window

## NoLicenceForInvalidUser

*(Tags: @FR043-03, @UR041-02)*

## LoginEnabled

**Given**  I can see the login window

**When**  I enter invalid username and password and press login

**Then**  an error message is displayed

## NoLicenceForBlockedLicence

*(Tags: @FR043-04, @UR041-02)*

**Given**  a user account with a licence associated

**And**  the licence is blocked

**And**  I can see the login window

**When**  I enter valid username and password and press login

**Then**  an error message is displayed

## NoLicenceForExpiredLicence

*(Tags: @FR043-05, @UR041-02)*

**Given**  a user account with a licence associated

**And**  the licence is expired

**And**  I can see the login window

**When**  I enter valid username and password and press login

**Then**  an error message is displayed

## NoLicenceForMaxMachines

*(Tags: @FR043-06, @UR041-02)*

**Given**  a user account with a licence associated

**And**  the licence has no additional machine slots

**And**  the licence is not activated on the current machine

**And**  I can see the login window

**When**  I enter valid username and password and press login

**Then**  an error message is displayed

## LicenseByLogin

*(Tags: @FR043-06, @UR041-02)*

**Given**  a user account with a licence associated

**And**  the licence has available machine slots

**And**  the licence is not activated on the current machine

**And**  the licence is not blocked

**And**  the licence is not expired

**And**  I can see the login window

**When**  I enter valid username and password and press login

**Then**  AssistDent starts

# Website Clark Dental Admin User

*(Tags: @FR, @FR045, @UR045, @Admin, @DesktopOnly)*

## Hide user registration information

*(Tags: @FR045-01)*

**Given**  that I have an active license of AssistDent setup on my computer

**When**  I rename the file %localappdata% \MIL\AssistDent\MIL.Caries.Desktop.UserSettings to TEMP.MIL.Caries.Desktop.UserSettings

**Then**  when I start AssistDent I am prompted to enter my registration details

## Clark Dental Admin can Access Registration Page

*(Tags: @FR045-02)*

**Given**  I am logged in on the website as a Clark Dental Admin user

**Then**  the "Register CD User" page is visible in the menu

**And**  I can access the page

**And**  I cannot access any other admin features of the website

## Create AssistDent User

*(Tags: @FR045-03)*

**Given**  I am logged in as a Clark Dental Admin user

**When**  I fill in the details for a new user

**And**  I provide email address and password {password}

**Then**  a new user creation is confirmed by the website

**And**  an email is sent to "support@manchester-imaging.com" with the details of email and password

# Website Collaborator User

*(Tags: @FR, @FR046, @UR0xx, @Admin, @DesktopOnly)*

## Non Admin or Clark Dental Admin users cannot see or access the CD User Registration page

*(Tags: @FR046-01)*

**Given**  I am logged in as a collaborator

**Then**  I cannot see a link to the Register CD User page

**And**  I cannot access the Register CD user page

## User can View Dashboard

*(Tags: @FR046-02)*

**Given**  I have the login details of a user

**When**  I log into the website

**Then**  I can see my dashboard with my name

**And**  it shows my email address

**And**  it shows my license key

## User can Initiate AssistDent

*(Tags: @FR046-03)*

**Given**  I have the login details of a user

**And**  I have AssistDent installed but no registered user

**And**  I start AssistDent

**And**  the user login page is shown

**When**  I enter the user email address and password

**Then**  AssistDent starts

**And**  it displays the correct license key and user information

## User Account and Billing information

*(Tags: @FR046-04)*

**Given**  I have started AssistDent as a User

**When**  I click on Settings -> User Account

**Then**  it direct me to the dashboard

# WebsiteAdminUser

*(Tags: @FR, @FR044, @UR044, @Admin, @DesktopOnly)*

## verify the website roles

*(Tags: @FR044-01)*

**Given**  I am logged in as a site administrator

**When**  I veiw the user roles

**Then**  thrre is a subscriber role for users that have registered but not setup an account

**And**  there is a Collaborator role for registered AssistDent users

**And**  there is a Clark Dental Admin role

## Create New AssistDent User Account

*(Tags: @FR044-02)*

**Given**  I am logged in as a site administrator

**When**  I register a new user on the CD user registration page with Email and Password

**Then**  I receive a User Registered confirmation page with the details of email

**And**  I receive an email to the support email address reporting of registration

**And**  an email to support stating that a new Cryptolens customer and license has been created

**And**  NO email to support stating that a Stripe customer has been created

**Then**  they appear as a website user with Collaborator role

**When**  I check the Cryptolens site

**Then**  the new CD user exists with the correct email address

**And**  it has an active licence

## Upgrade User to Clark Dental Admin

*(Tags: @FR044-03)*

**Given**  I am logged in as a site administrator

**When**  I add the Clark Dental Admin role to an existing user

**Then**  they appear as a website user with Collaborator and Clark Dental Admin roles

## Remove CD Admin or CD User

*(Tags: @FR044-04)*

**Given**  I have admin rights

**And**  I have created a CD Admin or CDV User

**When**  I delete the user on the website

**Then**  it is removed from the user list

**When**  I delete the user entry from the CD user registration gravity forms

**Then**  it is removed from the form entries

**When**  I locate the customer on the Cryptolens website

**And**  I block the license

**And**  I delete the customer ensuring that the ‘block all licences’ option is ticked

**Then**  there is no record of the customer on the Cryptolens site

**And**  the licenses they had are unassigned and blocked

**When**  I look for the user on Stripe

**Then**  there is no entry for that user

**When**  I look for the user and organisation on Pipedrive

**Then**  there is no entry for that user