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 crosshair

## 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 Add ROI button changes appearance back to original

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

# AnalysisProgressIndicator

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

## ShowFileUploadProgress

*(Tags: @FR024-1, @UR022-1, @WebOnly)*

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

**When**  I submit an image for analysis

**Then**  I can see a progress bar

**And**  the progress bar fills from left to right until completely full

**When**  the progress bar is full

**Then**  the image is displayed

**And**  the progress bar is hidden

## 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

# Anonymise DICOM Images

*(Tags: @FR, @FR011, @UR011, @Security, @WebOnly)*

## AnonymiseDICOMImage

*(Tags: @FR011-1, @UR011-1)*

**When**  I submit a DICOM Image

**Then**  the trace information in the web browser indicates an empty patient name and default birth date

**And**  the trace information displayed on the web server indicates an empty patient name and default birth date

# AuthorisationAccess

*(Tags: @FR, @FR020, @UR017, @Security, @WebOnly)*

## AnonymousCanAccessHomepage

*(Tags: @FR020-1, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>

**Then**  the assistdent.net home page is displayed

## AnonymousCanAccessTour

*(Tags: @FR020-2, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/tour

**Then**  the assistdent.net tour page is displayed

## AnonymousCanAccessLegal

*(Tags: @FR020-3, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/legal

**Then**  the assistdent.net legal page is displayed

## AnonymousCanAccessContact

*(Tags: @FR020-4, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/contact

**Then**  the assistdent.net contact page is displayed

## AnonymouseCannotAccessAnalysis

*(Tags: @FR020-5, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/analysis

**Then**  the assistdent.net login page is displayed

## AnonymouseCannotAccessFeedback

*(Tags: @FR020-6, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/feedback/new

**Then**  the assistdent.net login page is displayed

## AnonymouseCannotAccessManageUsers

*(Tags: @FR020-7, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/user

**Then**  the assistdent.net login page is displayed

## AnonymousCannotAccessAllowedIPs

*(Tags: @FR020-8, @UR017-1)*

**Given**  I am logged out

**And**  no Allowed IP Range exists which includes my IP address

**When**  I access <base url>/allowedips

**Then**  the assistdent.net login page is displayed

## UserCanAccessAnalysis

*(Tags: @FR020-9, @UR017-1)*

**Given**  I am logged in with a username and password

**And**  I have analysis permissions

**When**  I access <base url>/analysis

**Then**  the assistdent.net analysis page is displayed

## UserCanAccessFeedback

*(Tags: @FR020-10, @UR017-1)*

**Given**  I am logged in with a username and password

**And**  I do not have admin permissions

**When**  I access <base url>/feedback/new

**Then**  the assistdent.net feedback page is displayed

## UserCannotAccessManageUsers

*(Tags: @FR020-11, @UR017-1)*

**Given**  I am logged in with a username and password

**And**  I do not have admin permissions

**When**  I access <base url>/user

**Then**  the assistdent.net login page is displayed

## UserCannotAccessAllowedIPs

*(Tags: @FR020-12, @UR017-1)*

**Given**  I am logged in with a username and password

**And**  I do not have admin permissions

**When**  I access <base url>/allowedips

**Then**  the assistdent.net login page is displayed

## AdminCanAccessManageUsers

*(Tags: @FR020-13, @UR017-1)*

**Given**  I am logged in with admin permissions

**When**  I access <base url>/user

**Then**  the assistdent.net manage users page is displayed

## AdminCanAccessAllowedIPs

*(Tags: @FR020-14, @UR017-1)*

**Given**  I am logged in with admin permissions

**When**  I access <base url>/allowedips

**Then**  the assistdent.net allowed ips page is displayed

## UserRefusedAccessAnalysis

*(Tags: @FR020-15, @UR017-2)*

**Given**  I am logged in with a username and password

**And**  I do not have analysis permissions

**When**  I access <base url>/analysis

**Then**  the assistdent.net analysis page is not displayed

# AuthorisationAccess

*(Tags: @FR, @FR023, @UR017, @Security, @WebOnly)*

## UserCanAccessLogin

*(Tags: @FR023-1, @UR017-1)*

**Given**  I am logged out

**When**  I click the Login link

**Then**  I am redirected to the login page

## UserCannotLoginWithIncorrectPassword

*(Tags: @FR023-2, @UR017-1)*

**Given**  I am logged out

**And**  I have navigated to the login page

**When**  I enter my username

**And**  I enter an invalid password

**Then**  I am not granted access

**And**  I remain on the login page

## UserCannotLoginWithIncorrectUsername

*(Tags: @FR023-3, @UR017-1)*

**Given**  I am logged out

**And**  I have navigated to the login page

**When**  I enter an invalid username

**And**  I enter a valid password for another user

**Then**  I am not granted access

**And**  I remain on the login page

## UserCanLoginWithCorrectCredentials

*(Tags: @FR023-4, @UR017-1)*

**Given**  I am logged out

**And**  I have navigated to the login page

**When**  I enter an valid username

**And**  I enter a valid password

**Then**  I am redirected to another page

**When**  I click the Analysis link

**Then**  I have access to the Analysis page

# BypassLogin

*(Tags: @FR, @FR013, @UR013, @Security, @WebOnly)*

## CanAnalyzeFromAllowedIPAddress

*(Tags: @FR013-1, @UR013-1)*

**Given**  the current computer IP is specified exclusively by a single Allowed IP Range using exact IP address

**And**  I am logged out of the application

**When**  I access the URL <base>/Analysis

**Then**  the analysis page is displayed

**When**  I submit an image

**Then**  the image and results are displayed

## CanAnalyzeFromAllowedIPRange

*(Tags: @FR013-2, @UR013-1)*

**Given**  the current computer IP is specified exclusively by a single Allowed IP Range within a range of addresses

**And**  I am logged out of the application

**When**  I access the URL <base>/Analysis

**Then**  the analysis page is displayed

**When**  I submit an image

**Then**  the image and results are displayed

## CantAnalyzeFeomNoAllowedIP

*(Tags: @FR013-3, @UR013-2)*

**Given**  the current computer IP is not covered by any Allowed IP Range entry

**And**  I am logged out of the application

**When**  I access the URL <base>/Analysis

**Then**  the login page is displayed

## CantAnalyzeFromExpiredAllowedIP

*(Tags: @FR013-4, @UR013-3)*

**Given**  the current computer IP is specified exclusively by an Allowed IP Range which is expired

**And**  I am logged out of the application

**When**  I access the URL <base>/Analysis

**Then**  the login page is displayed

# 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 analyzed 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"

# ControlButtonTooltips

*(Tags: @FR, @FR010, @UR010, @Labelling, @WebOnly)*

## ShowTooltip

*(Tags: @FR010-1, @UR010-1)*

**Given**  an analyzed bitewing image

**When**  I hover over the <button name> button

**Then**  a tooltip with the text <tooltip text> appears above the button

### Examples:

|  |  |
| --- | --- |
| button name | tooltip text |
| toggle | Hide |
| delete | Delete |
| flip | Flip |
| add | Add |
| full | Full Screen |

# CustomerWorkflowEU

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

## CanRegisterInCECountry

*(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**  the registration is successful

**And**  AssistDent starts

## TakePaymentEU:

*(Tags: @FR031-2, @UR029-2)*

**Given**  I have register a trial licence for an EU user

**When**  I access the purchase licence page

**And**  choose the default price

**Then**  the payment is in Euros

**And**  UK VAT is not applied

## ViewInvoiceEuro:

*(Tags: @FR031-3, @UR029-3)*

**Given**  I have paid for a subscription for an EU 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 a statement regarding reverse tax

# 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 "United Kingdom" for the country

**Then**  the registration is successful

**And**  AssistDent starts

## 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)*

## DisplayDeleteButton

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

**Given**  2 submitted bitewing images

**Then**  the images shall be displayed in tile view

**And**  a delete button shall be displayed alongside each image

## DeleteROI

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

**Given**  an analyzed 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

## DeleteROIs

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

**Given**  an analyzed 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

# 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 unsuccesful

**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 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 approriate 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 |
| 14 | 14 |
| 30 | 30 |

## 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

# DetectionLogging

*(Tags: @FR, @FR021, @UR019, @Admin, @WebOnly)*

## ViewLoggedUserDetection

*(Tags: @FR021-1, @UR019-1)*

**Given**  I am logged in with admin permissions

**And**  I access <base>/analysis

**And**  I submit 1 image and receive the results

**When**  I access <base>/User

**And**  click the Details link next to my username

**Then**  I see a list of detections

**And**  the list of detections includes an entry for the analysis performed

## ViewLoggedAllowedIPDetection

*(Tags: @FR021-2, @UR019-2)*

**Given**  I am not logged on

**And**  an Allowed Ip exists for my computer

**And**  I access <base>/analysis

**And**  I submit 1 image and receive the results

**When**  I log on with admin permissions

**And**  I access <base>/AllowedIPs

**And**  click the Details link next the the Allowed IP for my computer

**Then**  I see a list of detections

**And**  the list of detections includes an entry for the analysis performed

# DICOMImageFormat

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

## 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

## DisplayImages

*(Tags: @FR001-2, @UR001-2, @WebOnly)*

**Given**  multiple bitewing images

**When**  submitted for analysis

**Then**  all bitewing images are displayed on screen

# DragAndDropExport

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

## ShowDragCursor

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

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

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

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

## CanDropIntoOtherApp

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

**Given**  an image has been analyzed 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 file contains the x-ray image

**And**  the file contains the caries annotations

## DraggedExportFilename

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

**Given**  an image has been analyzed 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

# DragAndDropImport

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

## AcceptDraggedImage

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

**Given**  AssistDent is started

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

**And**  drop the image into AssistDent

**Then**  the image is loaded and analyzed

## 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

# FeatureTour

*(Tags: @FR, @FR012, @UR012, @Labelling, @WebOnly)*

## StartFeatureTour

*(Tags: @FR012-1, @UR012-1)*

**When**  I access the tour URL

**Then**  the tour starts

## RetakeFeatureTour

*(Tags: @FR012-2, @UR012-1)*

**When**  I access the tour URL a subsequent time

**Then**  the tour starts

## FollowFeatureTour

*(Tags: @FR012-3, @UR012-1)*

**Given**  the tour is started

**When**  I press Next

**Then**  the tour moves to the next step

**And**  I can repeatedly press next until the end of the tour is reached

# 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

**And**  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 analyzes 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

# FullScreen

*(Tags: @FR, @FR005, @UR005, @Analysis, @WebOnly)*

The image shall be displayed expanded to fill as much of the screen as possible

## AccessFullScreen

*(Tags: @FR005-1, @UR005-1)*

**Given**  2 submitted bitewing images

**Then**  the images shall be displayed in tile view

**And**  an expand button shall be displayed alongside each image

## EnterFullScreen

*(Tags: @FR005-2, @UR005-1)*

**Given**  2 images displayed in tile view

**When**  I press the the expand button corresponding to the first image

**Then**  the first image is displayed to fill as much of the screen as possible

**And**  the other image is hidden from view

## AccessTileView

*(Tags: @FR005-3, @UR005-1)*

**Given**  an image displayed full screen

**Then**  an exit/collapse button shall be displayed alongside the image

## ReturnToTileView

*(Tags: @FR005-4, @UR005-1)*

**Given**  an image displayed full screen

**When**  I press the exit/collapse button the image is displayed in tile view

# GenerateAndViewFeedback

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

## UserCanAccessFeedbackForm

*(Tags: @FR022-1, @UR021-1, @WebOnly)*

**Given**  I am logged on with analysis permissions

**When**  I access the homepage

**Then**  I can see the feedback link

**When**  I access the analysis page

**Then**  I can see the feedback link

**When**  I follow the feedback link

**Then**  I see the feedback page

**When**  I access <base>/Feedback/New

**Then**  I see the feedback page

## UserCanEnterFeedback

*(Tags: @FR022-2, @UR021-1, @WebOnly)*

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

**And**  I have accessed the feedback form

**When**  I enter text into the feedback form

**And**  click Submit Feedback

**Then**  i am redirected to the homepage

## AdminCanAccessUserFeedback

*(Tags: @FR022-3, @UR020-1, @WebOnly)*

**Given**  feedback has been entered for an identified user

**And**  I am logged in with admin permissions

**And**  I access <base>/User

**And**  I click on the Details link next to the user

**Then**  I can see a list of the user's feedback

**And**  the list contains the date of the feedback

**And**  the list contains the text of the feedback

## AllowedIPCanAccessFeedbackForm

*(Tags: @FR022-4, @UR021-2, @WebOnly)*

**Given**  I am not logged on

**And**  an Allowed IP exists which includes my computer's IP address

**When**  I access the homepage

**Then**  I can see the feedback link

**When**  I access the analysis page

**Then**  I can see the feedback link

**When**  I follow the feedback link

**Then**  I see the feedback page

**When**  I access <base>/Feedback/New

**Then**  I see the feedback page

## AllowedIPCanEnterFeedback

*(Tags: @FR022-5, @UR021-2, @WebOnly)*

**Given**  I am not logged on

**And**  an Allowed IP exists which includes my computer's IP address

**And**  I have accessed the feedback form

**When**  I enter text into the feedback form

**And**  click Submit Feedback

**Then**  i am redirected to the homepage

## AdminCanAccessAllowedIPFeedback

*(Tags: @FR022-6, @UR020-2, @WebOnly)*

**Given**  feedback has been entered for an Allowed IP

**And**  I am logged in with admin permissions

**And**  I access <base>/AllowedIPs

**And**  I click on the Details link next to the Allowed IP

**Then**  I can see a list of the feedback associated from that IP

**And**  the list contains the date of the feedback

**And**  the list contains the text of the feedback

## 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 annoted caries ROIs

## ExportROIsAndTeeth

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

**Given**  I have performed caries detection

**And**  I configure the export to include teeth

**When**  I click the Export button

**Then**  an image file is created

**And**  that image contains the source X-Ray and annoted caries ROIs, and teeth indicators

## ExportROIsOnly

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

**Given**  I have performed caries detection

**And**  I configure the export to exclude teeth

**When**  I click the Export button

**Then**  an image file is created

**And**  that image contains the source X-Ray and annoted caries ROIs but no teeth

## 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 annoted 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 annoted 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 annoted 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 opens

**And**  the export image file is created

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

# ImageID

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

## 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

## ShowImageIDEditBox

*(Tags: @FR025-2, @UR023-2)*

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

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

**When**  I hover over the ID

**Then**  a box is shown indicating that the field can be edited

# 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 magnifer is positioned over an annotation

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

# ImageSubmit

*(Tags: @FR, @FR018, @UR016, @Analysis, @WebOnly)*

## CanSubmitImageByBrowsing

*(Tags: @FR018-1, @UR016-1)*

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

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

**And**  click the dashed submit area

**And**  browse for a bitewing image

**And**  submit the image

**Then**  the image is displayed correctly

**And**  the results are displayed

## CanSubmitImageByDragAndDrop

*(Tags: @FR018-1, @UR016-2)*

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

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

**And**  drag and drop a bitewing image from Explorer to the dashed submit area

**Then**  the image is displayed correctly

**And**  the results are displayed

## CanSubmitImagesByBrowsing

*(Tags: @FR018-3, @UR016-1)*

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

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

**And**  click the dashed submit area

**And**  browse for 2 bitewing images

**And**  submit the images

**Then**  the images are displayed correctly

**And**  the results are displayed

## CanSubmitImagesByDragAndDrop

*(Tags: @FR018-4, @UR016-2)*

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

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

**And**  drag and drop 2 bitewing images from Explorer to the dashed submit area

**Then**  the images are displayed correctly

**And**  the results are displayed

# LegalInformationPage

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

## CanAccessLegalPage

*(Tags: @FR015-1, @UR015-1, @WebOnly)*

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

**Then**  a page of legal information is displayed

**And**  it contains the Regulatory clinical use information

## 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

## CanAccessTour

*(Tags: @FR015-3, @UR015-2, @WebOnly)*

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

**Then**  a page of instructions for use is displayed

**And**  it contains the Regulatory 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

# ManageAllowedIPRanges

*(Tags: @FR, @FR014, @UR014, @Security, @WebOnly)*

## CanAccessAllowedIPRangeURL

*(Tags: @FR014-1, @UR014-1)*

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

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

**Then**  a list of Allowed IP Ranges is displayed

**And**  the name of each Allowed IP Range is listed

**And**  the start address of each Allowed IP Range is listed

**And**  the end address of each Allowed IP Range is listed

**And**  the expiry date of each Allowed IP Range is listed

## CanAddAllowedIPRange

*(Tags: @FR014-2, @UR014-2)*

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

**And**  have accessed the list of Allowed IP Ranges

**When**  I click the Allow IP Range button

**And**  enter a name

**And**  enter a start address

**And**  enter an end address

**And**  enter an expiry date

**And**  click Add

**Then**  the page is redirected to the list of Allowed IP Ranges

**And**  the list of Allowed IP Ranges now includes the new entry

**And**  the details match those entered in previous steps

## CantAddInvalidAllowedIPRange

*(Tags: @FR014-3, @UR014-2)*

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

**And**  have accessed the list of Allowed IP Ranges

**When**  I click the Allow IP Range button

**And**  enter a name

**And**  enter a start address

**And**  enter an end address

**And**  enter the name again in the expiry date field

**And**  click Add

**Then**  a validation error message appears adjacent to the expiry date field

**And**  the Allowed IP Range cannot be saved

## CanEditAllowedIPRange

*(Tags: @FR014-4, @UR014-3)*

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

**And**  I have created at least one Allowed IP Range

**When**  I click the Edit link

**And**  edit the name

**And**  click the Save button

**Then**  the name is updated in the list of Allowed IP Ranges

## CantEditInvalidAllowedIPRange

*(Tags: @FR014-5, @UR014-3)*

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

**And**  I have created at least one Allowed IP Range

**When**  I click the Edit link

**And**  repeat the name in the Expiry Date field

**And**  click the Save button

**Then**  a validation error message appears adjacent to the expiry date field

**And**  the Allowed IP Range cannot be saved

## CanDeleteAllowedIPRange

*(Tags: @FR014-6, @UR014-4)*

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

**And**  I have created at least one Allowed IP Range

**When**  I click the Delete link

**Then**  the list of Allowed IP Ranges no longer includes the deleted record

# ManageUserLogins

*(Tags: @FR, @FR019, @UR018, @Security, @WebOnly)*

## CanAccessManageUsersURL

*(Tags: @FR019-1, @UR018-1)*

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

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

**Then**  a list of Users is displayed

**And**  the name of each User is displayed

**And**  the email address of each User is displayed

**And**  the number of performed detections is displayed

## CanAddUser

*(Tags: @FR019-2, @UR018-2)*

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

**And**  have accessed the list of Users

**When**  I click the New User button

**And**  enter an email

**And**  enter a full name

**And**  enter comments

**And**  enter a password

**And**  confirm a password

**And**  click Register

**Then**  the page is redirected to the list of Users

**And**  the list of Users now includes the new entry

**And**  the details match those entered in previous steps

## CantAddInvalidUser

*(Tags: @FR019-3, @UR018-2)*

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

**And**  have accessed the list of Users

**When**  I click the New User button

**And**  click Register

**Then**  the validation error for email address is displayed

**And**  the validation error for password is displayed

**When**  I enter "name" in the email field

**And**  click Register

**Then**  the validation error a valid email address is displayed

**And**  the validation error for password is displayed

**When**  I enter "name@email.com" in the email field

**And**  click Register

**Then**  the validation error for password is displayed

**When**  I enter "12345" in the password field

**And**  click Register

**Then**  the validation error for password complexity is displayed

**When**  I enter "123456" in the password field

**And**  click Register

**Then**  the validation error for password confirmation is displayed

**When**  I enter "notamatch" in the password field

**And**  click Register

**Then**  the validation error for password confirmation is displayed

## CanDeleteAllowedIPRange

*(Tags: @FR019-4, @UR018-3)*

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

**And**  I have created at least one User

**When**  I click the Delete link

**Then**  the list of Users no longer includes the deleted record

# 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

# RepositionROI

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

## MoveAndDragROI

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

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

**When**  I click and drag an ROI

**Then**  the ROI will move with the mouse

**And**  the ROI selection status will remain unchanged

## MoveROI

*(Tags: @FR009-2, @UR009-1)*

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

**When**  I click and drag an ROI

**And**  move the mouse

**And**  release the mouse

**Then**  the ROI will stay at its new location

**And**  the ROI selection status will remain unchanged

## FlipROI

*(Tags: @FR009-3, @UR009-2)*

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

**When**  I select an ROI

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

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

**And**  the ROI will remain selected

## FlipROIs

*(Tags: @FR009-4, @UR009-2)*

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

**When**  I select 2 or more ROIs

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

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

**And**  the ROIs will remain selected

# ROIIndicator

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

The location of caries regions of interest shall be displayed in position on the image

## 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

## 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

## 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, @WebOnly)*

**Given**  2 bitewing images of different resolution

**When**  caries detection is complete

**Then**  caries ROI indicators in both images are a consistent size

# 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

# TiffImageFormat

*(Tags: @FR, @FR016, @UR016, @Analysis, @WebOnly)*

## CanAnalyseTiffImages

*(Tags: @FR016-1, @UR016-1, @UR016-3)*

**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 Tiff format

**And**  submit the image

**Then**  the image is displayed correctly

**And**  the results are displayed

# ToggleAnnotation

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

## AccessAnnotationToggle

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

**Given**  2 submitted bitewing images

**Then**  the images shall be displayed in tile view

**And**  a hide annotation button shall be displayed alongside each image

## HideImageAnnotation

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

**Given**  an analyzed 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 analyzed 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

## ToothIndicators

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

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

**When**  caries detection is complete

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

# 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, @UR024-3)*

**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

**And**  the message includes a link