

CRIS Upgrade Familiarisation Documentation

Overview of Key CRIS Changes 2.09.10t1g to 2.12.10

Wellbeing Training Department

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Contents

Introduction	4
Purpose	4
All Changes	4
Audience	4
General	5
Widgets	11
Login	11
Patient Details	12
Event Details	13
Vetting	14
Appointments	16
Document Scanning / Attaching Documents	18
Reception	18
Post Processing	18
Dictation	19
Voice Recognition	19
Bug Fixes	19
Enhancements	19
Reporting	21
Printing	23
System Admin	24
Statistical Reports	26
'Inclusive' Modules	28
Sessions Module	28
Messaging Module	28
Resources Module	28
Nuclear Medicine Module	28
Portering Module	28
Obstetrics Ultrasound Module	28
Additional Modules	29
Fetal Anomaly Screening Programme (FASP)	29
Billing Module	29
Medical Photography	30
MFN (Master File Notifications)	31
Interfaces	33
PACS DTI	35
Auditing	37

Introduction

Purpose

This document is designed to provide a summary of the relevant changes, enhancements and features incorporated into the CRIS system from version 2.09.10t1g through to version 2.12.10. This document is not intended to replace the full CRIS Release Notes and does not make specific reference to any bug fixes or problem resolutions. This is with the exception of VR where bug fixes can be useful to highlight enhancements.

Please note:

The following symbols have been used to aid searching and identification in the document:

@ Symbol = Changes which may have an impact on the user interface or may involve communication / training.

Symbol = PACS based reporting changes.

All applicable security settings are formatted / highlighted in **RED**, and XR Settings in **BLUE** for ease of identification.

All Changes

There are 64 changes between 2.09.10t1g and 2.12.10 as follows:						2.09.10t1g	2
2.11.00	21	2.11.03	2	2.11.05	3	2.11.06	1
2.12.00	23	2.12.01	4	2.12.02	2	2.12.03	2
2.12.03b	0	2.12.04	2	2.12.05	1	2.12.06	1
2.12.07	0	2.12.08	0	2.12.09	0	2.12.10	0

Audience

The intended audience for this document is upgrading customers moving from version 2.09.10p or higher.

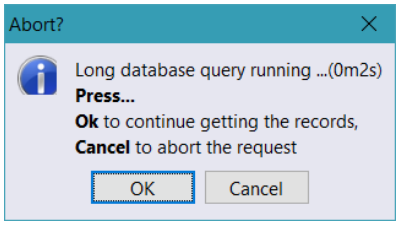
General

CRIS-1187	Technical requirements from Java 5 to Java 8
Description	Java 1.8 32-bit version must be successfully built and deployed. Test servers, must be configured to comply with Java 1.8. Simple regression test must be carried out to check the appearance of the GUI interfaces. Two basic database servers, Oracle and PostgreSQL, must be checked for Java 1.8 CRIS version. Installer must be created and tested for Java 1.8.
Resolution	CRIS Java 1.8 32-bit version was successfully built and deployed. Test servers, were successfully configured to comply with Java 1.8. Code was migrated to SVN (Simple regression test was carried out to check the appearance of the GUI interfaces. Two basic database servers, Oracle and PostgreSQL, was checked for Java 1.8 CRIS version. Installer was created and tested for Java 1.8.
Fixed in	2.10.00

CRIS-1812	Speed up SQL return times from Postgres database
Description	Calls to SQL are somewhat slow in certain circumstances. Particularly the Received and Vetting queries where we have lots of items waiting for vetting. This is a complex query and can take many minutes to return. Need to speed this up if possible. Adding a suitable index to these SQL queries will improve database performance over a number of GUI lists, especially vetting.
Resolution	The DBAs have added an index that helps with this particular query, This should also improve the vetting and receive lists. It can shave 25 of the time of the client -> DB -> client time. We can now cancel running queries from Orders and Vetting. Most queries now run in the background. The user interface is blocked while the query is running, but the screen will repaint correctly if re-sized.
Fixed in	2.10.00

CRIS-1752@	Re: [Reference#0063743] Date values converting incorrectly																										
Description	When typing dates in certain formats, the date the application displays is not the one typed. This primarily affects shorthand years being shown as 20XX instead of 19XX when they are >80 years in the past, i. e. Today's date = 25/10/2016 Using DoB search field as an example, but this seems to affect all date fields. Today - 80 years = 25/10/1936 <table> <thead> <tr> <th>Date Typed</th><th>Output</th></tr> </thead> <tbody> <tr><td>25/10/16</td><td>25-Oct-2016</td></tr> <tr><td>25/10/36</td><td>25-Oct-1936</td></tr> <tr><td>26/10/36</td><td>26-Oct-1936</td></tr> <tr><td>24/10/36</td><td>24-Oct-1936</td></tr> <tr><td>25-10-16</td><td>25-Oct-2016</td></tr> <tr><td>25-10-36</td><td>25-Oct-2036</td></tr> <tr><td>26-10-36</td><td>26-Oct-1936</td></tr> <tr><td>24-10-36</td><td>24-Oct-2036</td></tr> <tr><td>25.10.16</td><td>25-Oct-2016</td></tr> <tr><td>25.10.36</td><td>25-Oct-2036</td></tr> <tr><td>26.10.36</td><td>26-Oct-1936</td></tr> <tr><td>24.10.36</td><td>24-Oct-2036</td></tr> </tbody> </table>	Date Typed	Output	25/10/16	25-Oct-2016	25/10/36	25-Oct-1936	26/10/36	26-Oct-1936	24/10/36	24-Oct-1936	25-10-16	25-Oct-2016	25-10-36	25-Oct-2036	26-10-36	26-Oct-1936	24-10-36	24-Oct-2036	25.10.16	25-Oct-2016	25.10.36	25-Oct-2036	26.10.36	26-Oct-1936	24.10.36	24-Oct-2036
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Resolution	Changes have been made to ensure that a range of non-standard date patterns are handled correctly for specific past date fields.																										

	The fields affected are: ▪ Patient search fields = "Date Of Birth" ▪ Patient Details page = "Date Of Birth" and "Date Of Death" fields ▪ Back Log Mode Utility date field
Fixed in	2.10.00

CRIS-1798@	Allow Cancel of long running queries
Description	CRIS work lists when executed can lock up the interface during the execution of the query. We need a cancel option to be able to cancel a running query.
Resolution	If a query is taking a long time, the interface will be greyed out, and an animation will run over the application to indicate a long query is taking place. If you discover that you have requested much more data than you need, you can click on the interface and then elect to cancel the query, thus returning control back to the user, who can then adjust the filter and re-submit the query. 
Fixed in	2.10.00

CRIS-1677@	Re: [Reference#0058436] Orders List profile to save when logging in and moving between tabs
Description	From 2.09.10s1 when the XR setting SPINE.RestrictSitesToTrust is set and the site filter is left blank it will return any Orders for that trust and any with a null site code. Changes to be considered ▪ Reverting back to pre-s1 functionality ▪ When restrict sites to trust is yes it only includes orders with null sites if the order is for a HIS record matching the current XR setting location.pas_id
Resolution	The following panels may save the selected profile across logins. These panels are [Appointments] List, [Day List], [Orders] List, [Request List], [Vetting List] and [Waiting List]. This facility relies upon the XR setting "GENERAL.PersistProfiles" being set to Yes.
Fixed in	2.10.00

CRIS-2415	Reduce excessive query calls for the same query in the lists
Description	It was found, that many of the worklists were calling the same database queries repeatedly and unnecessarily.
Resolution	To avoid unnecessary queries to the database, if the lists are refreshed within 10 seconds of having previously been refreshed, we ignore the call for the refresh. After 10 seconds we allow the refresh. The 10 second time limit is hard-coded and cannot be configured.
Fixed in	2.11.00

CRIS-2109@	Allow any combinations of differing referrers, referral locations and patient type mappings
Description	As a user sending an order to CRIS I want the referrer type to allow any patient types So that when an order is sent with patient type C, D or G the system validates either in relation to the referrer type .

	An XR setting should be introduced to enable or disable the current validation. This allows for orders and requests to be made, whereby the GP referrer is within a hospital and a consultant is within a GP location. Allowing mixed referrers and mixed patient types without having to match incorrectly the criteria.
Resolution	If the XR setting 'SECURITY.Event_ValidatePatientTypeOnNewEvent' is set to NO all validation is disabled when checking the combination of referrer, referring location and patient type validation is turned off. This means that in future it would be possible to create N Type Nurse Practitioners and have them make referrals from all Clinics without the validation on Referral Source and Referrer Type preventing the event being saved. However, it should be noted this also means that a Secondary Care Referral Source – i.e. AED could be paired with a primary care referrer – i.e. GP and therefore caution should be exercised to ensure that if turned on there will be no impact on Stats and Referrer Billing. A warning message will be displayed to enable the user to override or correct the event / request. The default is 'YES', so validation will be performed by default. Set to 'No' to turn validation off.
Fixed in	2.11.00

CRIS-1858@	NHS number 'alert' on CRIS if an NHS number already exists in CRIS
Description	As a System admin I want to use view log to identify any NHS numbers that have been updated with either 1) A different NHS number but with the same DOB and hospital number or b) A different DOB but same NHS numbers. I want to identify whether this was by the system (EJBserver) or by a user who has linked two patient records with different NHS numbers and be able to review / verify the information in other 3rd Party systems to identify the correct NHS number for the patient.
Resolution	When a patient demographics arrive from PAS/OCS, if there is an NHS number that is known to the system and then an incoming message changes the NHS number for a patient, it is now noted in the log, under WARN > Interface > PAS > NHS Number Change with all the relevant details pertaining to the change. If PAS/OCS sends the same NHS number and the patient is validated by patient number, but the patient details such as DOB are different this information will be logged under WARN > Interface > PAS > NHS Number matched as there is now a possibility that there are 2 patients with the same NHS number within the PAS.
Fixed in	2.11.00

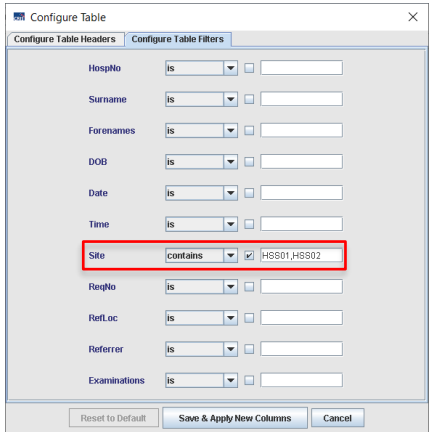
CRIS-1656@	Recording Accessibility Standards
Description	To comply with Accessible Information Standards (NHS England) we must ensure we can send out information in a format that patients with sensory disabilities can understand.
Resolution	Within the patient details screen there is a 'Sensory Disability' checkbox. A tick signifies that the patient has a sensory disability and a cross states they don't have a sensory disability. The blank option is available if they haven't been asked. The sensory disability should be noted in the Patient Alarms table. A stat can then be used to see patients with a sensory disability with an appointment made. Further stats can be used to identify the sensory disability from the alarms table. Additional Information Database changes tracked by CRIS-2212

Fixed in	2.11.00
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CRIS-2211@	Java version logging
Description	Addition of functionality to log the client Java version used when logging into CRIS. We currently do not actively monitor the version of Java the client is using within CRIS. If we are looking into patching Java more often, we may need to know what version of Java was being used at the time.
Resolution	The Java version is now visible in the 'About' menu within CRIS.
Fixed in	2.11.00

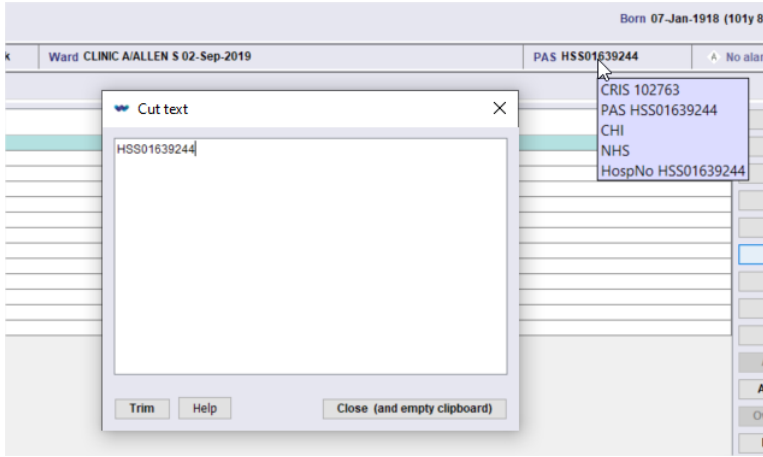
CRIS-2082@	Ability to copy text from non-selectable parts of the interface. i.e. NHS number label
Description	Allow the user to cut text from the interface to save the user having to copy the CRIS no, or NHS no etc by hand. Allow them to get the text be it in a table, or a text box, or a label.
Resolution	Tool created to allow the user to copy text from the main application window area, plus including picture of app. Designed to allow users etc. to lift the text from labels (like NHS No.) This is not guaranteed to work on Stats or Diary. Relies upon enabling XR setting General.MiddleMouseButtonCopyToClipboard option. You can now copy using Middle Mouse Button (MMB). This applies to text boxes, labels, selected rows in tables. For basic textboxes you can also copy the tool tip using Ctrl+MMB. This generally does not apply to tables due to the way the tool tips are coded in tables. (i.e. done through the renderer code). You can trim the text in the clipboard using the Trim Button in the Clipboard viewer, prior to pasting somewhere else. You can also copy the application image to the clipboard using Shift + MMB. This will not apply for dialogs. For text, a 'clipboard viewer' opens to show the copied text, which can be trimmed within the clipboard, and then potentially pasted elsewhere. If an image is taken you can paste this into an image editor / viewer.
Fixed in	2.11.00

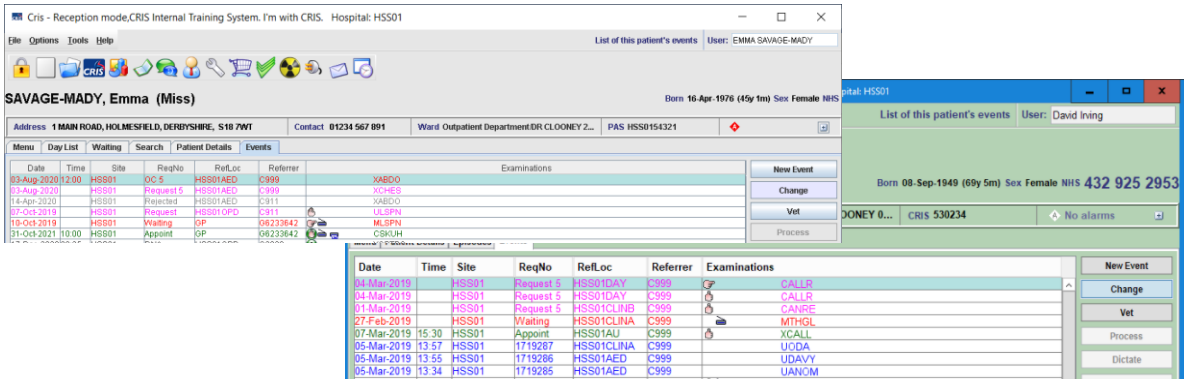
CRIS-5586	CRIS SQL queries causing Worklists to run slowly for cross trust working when site is left blank
Description	A customer reported that when they use the application to pick up other trusts events, most of the lists in CRIS are very slow to run queries and display results. The way in which the customer was hoping to use CRIS for cross trust work was to add multiple trust sites to the site column filter on the request list, for example, but leave the site filter at the bottom of the actual list blank. This results in the main request list query returning events for any site and then once the result set is returned, the results are filtered down based upon any table column filters which have been added. This can easily be seen in the java console when replicating. This significantly impacts the speed of the application. Each time a list is refreshed it takes a long time to return data because of the sheer number of events on large consortia lists. It would be better

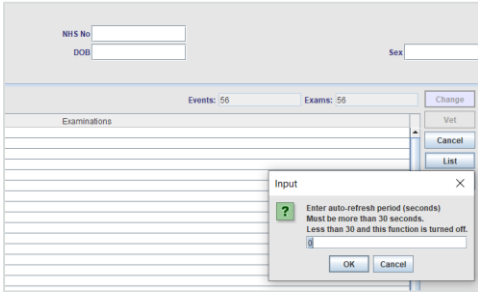
	if CRIS could identify that table filters have been used and therefore apply these into the initial database query.
Resolution	For this to work the XR Setting SPINE.RestrictToTrust must be set to "No". A change has been made so that we only request data for the sites included in the site column filter if this filter is set and the site field is empty. The user will only see these performance benefits if the site filter operator is 'Contains' – i.e. contains HSS01,HSS02. The list of sites must be separated with commas. No validation of the site codes is performed. 
Fixed in	2.11.05

CRIS-5604	Support 2-digit urgency values
Description	There is a requirement to be able to choose from a list of more than 9 urgencies. Currently the Normal Table CRISURG vis System Setup allow you to enter a 2 digit urgency code but when trying to save an event with a 2 digit urgency code with two digits there is an error.
Resolution	CRIS now supports 2 digit urgency codes. The incoming PAS interface has been changed to reflect this.
Fixed in	2.11.05

CRIS-2082@	Ability to copy text from non-selectable parts of the interface ie: NHS number label
Description	Allow the user to cut text from the interface to save the user having to copy the CRIS no, or NHS no etc by hand. Allow them to get the text be it in a table, or a text box, or a label.
Resolution	Tool created to allow the user to copy text from the main application window area, plus includes ability to include screenshot of the application. Designed to allow secretaries etc. to lift the text from labels such as NHS No. (This is not guaranteed to work on Stats or Diary) Relies upon enabling XR setting General.MiddleMouseButtonCopyToClipboard option. User can now copy using Middle Mouse Button (MMB). This applies to text boxes, labels, selected rows in tables. For basic textboxes user can copy the tool tip using Ctrl+MMB. This generally does not apply to tables due to the way the tool tips are coded in tables. (i.e. done through the renderer code). User can trim the text in the clipboard using the Trim Button in the Clipboard viewer, prior to pasting somewhere else.

	User can also copy the application image to the clipboard using Shift + MMB. This will not apply for dialogs. For text, a 'clipboard viewer' opens to show the copied text, which can be trimmed within the clipboard, and then potentially pasted elsewhere. If an image is taken this can be pasted into an image editor / viewer. 
Fixed in	2.12.00

CRIS-3851@	Font appear blurred in CRIS following link to windows font size
Description	Font appears blurred when viewing the Cris interface. Font to appear without blurring, as it did prior to the link to windows font size.
Resolution	Application adjusted to correct a problematic value in the settings for the look-n-feel. Also added a capability to configure three different types of font / font-size-style (Arial, Arial Narrow and Verdana) from the '.jnlp' file. Classic view is recommended, whilst a Test view allows test or training environments to be displayed as a noticeably different theme. 
Fixed in	2.12.00

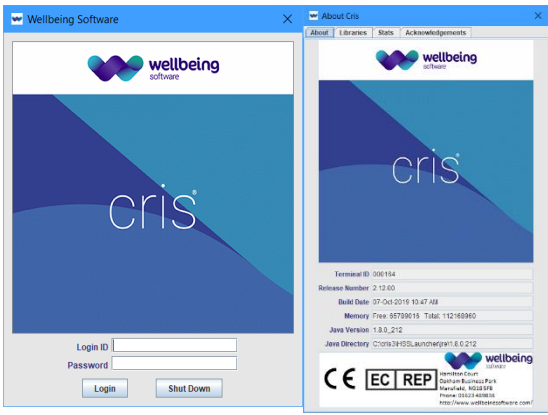
CRIS-6167@	Implement Order list Auto Refresh
Description	A configurable auto refresh on the Orders list is needed. Refresh period in seconds with 0 seconds disabling the functionality.
Resolution	Resolution: Auto-refresh on the Orders List implemented. To enable this function open the [Orders] List. Right click on the [List] button. Fill in a period (in seconds) greater than 30 to start a refresh process. To disable this, set the value to 0 (or less than 30).  Please note: The refresh will only take place if the Orders List is visible. When starting the process, the initial countdown is based on the LAST time the list was run.
Fixed in	2.12.04

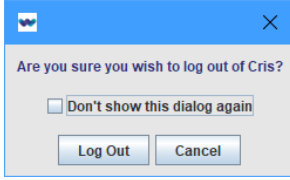
CRIS-6211@	Ability to pull Chemical Name from Phial
Description	There is a requirement from a customer to extract the Chemical Name of a Phial rather than just the chemical code. This is useful when printing labels.
Resolution	Added methods getChemicalName() and getIsotopeName() to the Phial class. These methods can now be referenced within printing formats to produce the required label output.
Fixed in	2.12.04

Widgets

There are no functional changes applicable to this release.

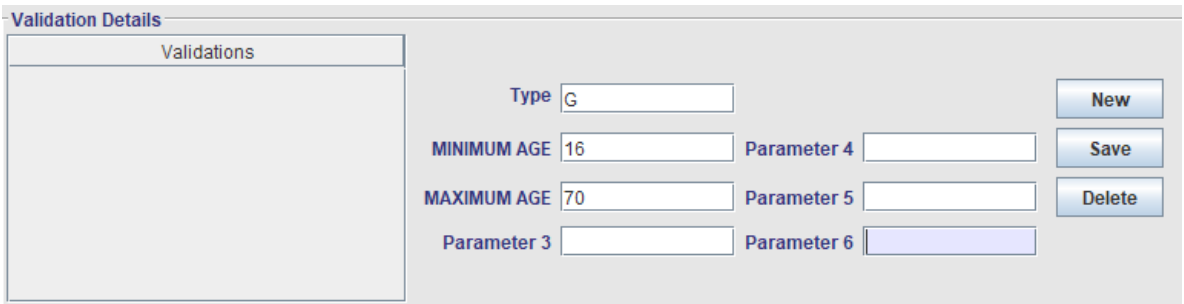
Login

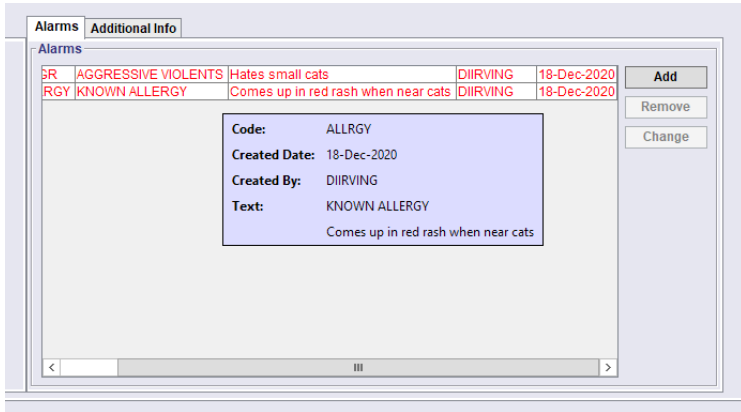
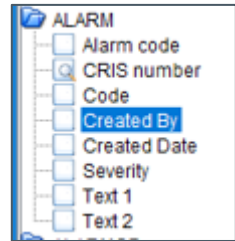
CRIS- 3440	Core CRIS Rebrand
Description	Core CRIS has been updated so the latest Wellbeing branding is displayed on the Splash screen, Login screen and the Help/About screen
Resolution	
Fixed in	2.12.00

CRIS-3446@	Extra Pop-Up box when clicking the padlock icon
Description	Users were reportedly accidentally clicking the padlock icon and logging out of CRIS
Resolution	A dialog is now displayed when the user presses the padlock icon. This dialog asks the user if they are sure they want to log out. The user can then log out or cancel the action and stay logged in. The user can select a check box if they do not want to be asked again. 
Fixed in	2.12.00

Patient Details

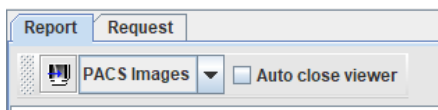
CRIS-1613@	[Reference#0054184] Issue when adding new Alarms – Character Countdown
Description	When adding alarms to a patient record, the first 'Text' line is limited to 30 characters. When users type into this field, it allows them to type as much as they want, it isn't until they press 'OK' that they receive a warning message. The warning message is fine however when the user presses OK, it then removes all the text which was in the field so the user must then enter the text again, but each time counting exactly how many characters they are using to avoid it going over 30. This is not ideal and shouldn't be expected of the customers to be counting each time they are entering something in this field.
Resolution	A 'Summary' title has now been added to the dialog. Both the 'Summary' and 'Text' fields have counters to the far right of the field which indicate to the user how many characters they have entered. As they get nearer the maximum length, the colouring of the counter changes to warn the user that the maximum count is approaching. If the maximum count is exceeded, it's truncated back to the maximum value – 5 characters.
Fixed in	2.10.00

CRIS-4069@	Improve Exam Validation for Age Check
Description	When a user configures age validation against an exam, the user would like the first two parameters to be used as the lower and upper thresholds to validate against
Resolution	A new exam validation rule based on the age of the patient at exam creation has been added. The rule has two parameters, LOWER LIMIT and UPPER LIMIT. The patient's age must fall between these two values to validate. The message displayed is now a 'warning' message and as such allows the user to proceed even if the age is invalid. 
Fixed in	2.12.00

CRIS-5593@	Alarms - record and display who added the Alarm
Description	From the Cris Ideas Portal: We need the alarm status to be more auditable on patients. We need to be able to see who added an alarm and when. Now we have no idea when an alarm was added to a record, or by whom. We only need show who added the alarm. If customers wish to have a full audit including addition and removal of alarms, then they could request this via support.
Resolution	Added columns to show creation date and by to the PatientSearch, and the All Alarms panel. Using Add alarm in CRIS will add today and current user to the Alarm info - Updating the alarm will leave the createdDate and createdBy as before. Alarms from interface will show the createdBy as EJBServer, with no date. This information from HIS will NOT be stored back in the database as we do not have that information yet.   This data is also available via Statistical reports using the ALARMS Table and "Created By" or "Created Date".
Fixed in	2.12.03

Event Details

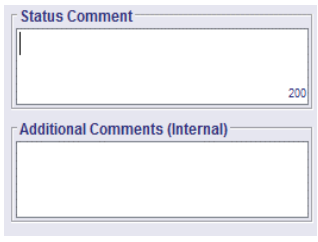
CRIS-1444	Reading GS1 wristbands within CRIS
Description	CRIS to be able to read the GS1 2D datamatrix code and use the encoded. Information to verify the patient's identification and open the patient's event page in CRIS.
Resolution	Implemented a barcode analysis on the 1st 6 fields in the PatientSearch panel. When the GS1 barcode is scanned it brings up the patient events page.
Fixed in	2.09.10t1g

CRIS-4193@	F12 Viewer to display same drop-down menu as Reporting and Post-processing
Description	When users open the report viewer (F12 viewer) in Core Cris they would like to see the same drop-down menu as the one seen in post processing and reporting. Users could then select and open individual images in the F12 viewer in the same way as they can in reporting and post processing.
Resolution	Combo for DTI added to report viewer. 
Fixed in	2.12.00

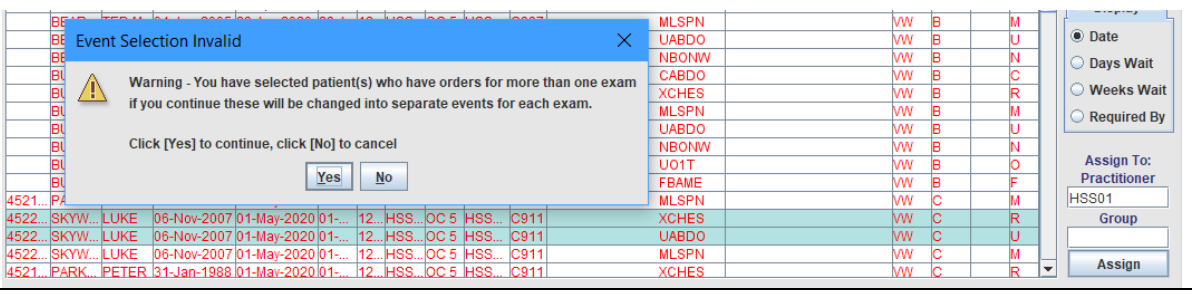
Vetting

CRIS-1823@	[Reference#0064379] Vetting from other sites creating incorrect Accession Number prefix
Description	RFC has been raised to fix bug where accession prefix is allocated from the current site/trust rather than the site/trust from the event. There are several ways that this problem can occur which are listed below but the basic fault is that the accession prefix should be taken from the site/trust on the event where present and not that of the current session. ▪ An Order for another site/trust is selected from the Patients Event List ▪ An Order is selected from the Orders List when restrict sites to trust is set to No ▪ An order is selected from the Vetting List as regardless of restrict sites to trust setting it is possible to search other sites vetting lists ▪ An order with null site is selected from Orders or Vetting list
Resolution	If we have an order with a blank siteID, we firstly warn the user that the order has no site, and we will default to the current site/trust. However, normally the incoming orders system forces the siteID to be the current site if not is present. If this point is reached, the user is given the option to accept the change to alter the siteID to be the current site/trust, or cancel the request. There is NO option to pick a different site/trust. If the incoming order has a different site we will check the GENERAL.DefaultChangeSiteAction XR setting to see if set to 'Keep', 'Change' or blank ('Prompt') action. If not set, we should proceed to prompt for the required option. The exam accession number is created once and once only. Once set it cannot be changed, so this is created when the exam (and potentially it's event) is/are first saved. Normally exam accession prefix is derived from the current XR settings from the terminal. i.e. XRT values which typically uses a TRUSTCODE prefix – i.e. HSS12456789 If we have to elect to keep the site/trust, we cannot use the terminal settings to get the AccessionPrefix, as we do not have a prefix instruction in our terminal settings, so the program sets the siteID for all the exams to the requested value. The application checks if the site/trust has been set. If so, the accession code is based on the 'KeepSite' siteID already stored in the exam, and pulls the prefix from the site XR (Site) settings as opposed to the user XRT (logged in terminal) settings. However, this functionality assumes that the user will NOT change the site ID post initial event creation, and normal work flow would support this working. i.e. the site has already accepted the order so should not be changed. So, changing the site/trust POST initial creation is NOT allowed, and if you DID change the site, the accession numbers would remain prefixed with the initial site/trust prefix code. i.e. an additional check is that once a site has a vetting status of complete, the site ID cannot be changed.
Fixed in	2.10.00

CRIS-1954@	Cancellation/ rejection of order or request
Description	When rejecting a 'request' directly from an order, the 'Status Comment' textbox needs additional labelling to indicate the external origin of the request. When an 'attended' event is to be cancelled, via 'undo attend', similar extra labeling is required on the 'Status Comment' panel if the original event was created from an order. Also ensure that these labels are included in the 'Status' tab hover-help

Resolution	New labelling has been applied to the 'Status Comment' and 'Additional Comment' (Internal) text fields. This new labelling is also produce in the status hover-help with the events details 'Status' tab.
	
Fixed in	2.10.00

CRIS-2501	Breach dates not calculated when 'show completed' is set to 'Y'
Description	When using the [Vetting List] events are highlighted in pink to indicate waiting time breaches via the breach date option. However, this only works when the 'Show Completed' field is set to 'N', not when set to 'Y'. This wasn't helpful as Clerical staff looking at completed events are the ones who really need to know about Waiting Time breaches rather than Clinicians Vetting requests.
Resolution	'Completed' events are now included within the breach date validation.
Fixed in	2.11.00

CRIS-3990@	Vetting List – Assigning of orders/events to a practitioner/group
Description	When using the Vetting list or Orders list a user assigning multiple orders/events would like to see a warning if there are multiple orders within the selection for the same patient, so that the user is aware that the orders may need to be combined into a single event/request before assignment. The existing message that warns about orders and events is incorrect and should be removed. The only time a warning should be displayed is when there are multiple order rows in the selection for a single patient.
Resolution	Message now displayed when a user tries to Assign multiple orders for a single patient:
	
Fixed in	2.12.00

CRIS-4226@	'Group' field in the Vetting List
Description	The 'Group' field should only be available in the 'Vetting List' if the 'Resource Module' is available
Resolution	The resource 'Group' field on the vetting list is only displayed when the resource module is enabled and the 'GENERAL.SingleResourceGroupPerEvent' setting is set to 'yes'.
Fixed in	2.12.00

CRIS-4034@	Default new protocols to local Trust in protocol setup for consortia
Description	When adding new protocols the user wants the default Owner to be the local trust to avoid inadvertently creating protocols for the entire consortium.

Resolution	This can be achieved by removing or setting the security setting GENERAL.MANAGE_VET_SYS = N
Fixed in	2.12.00

Appointments

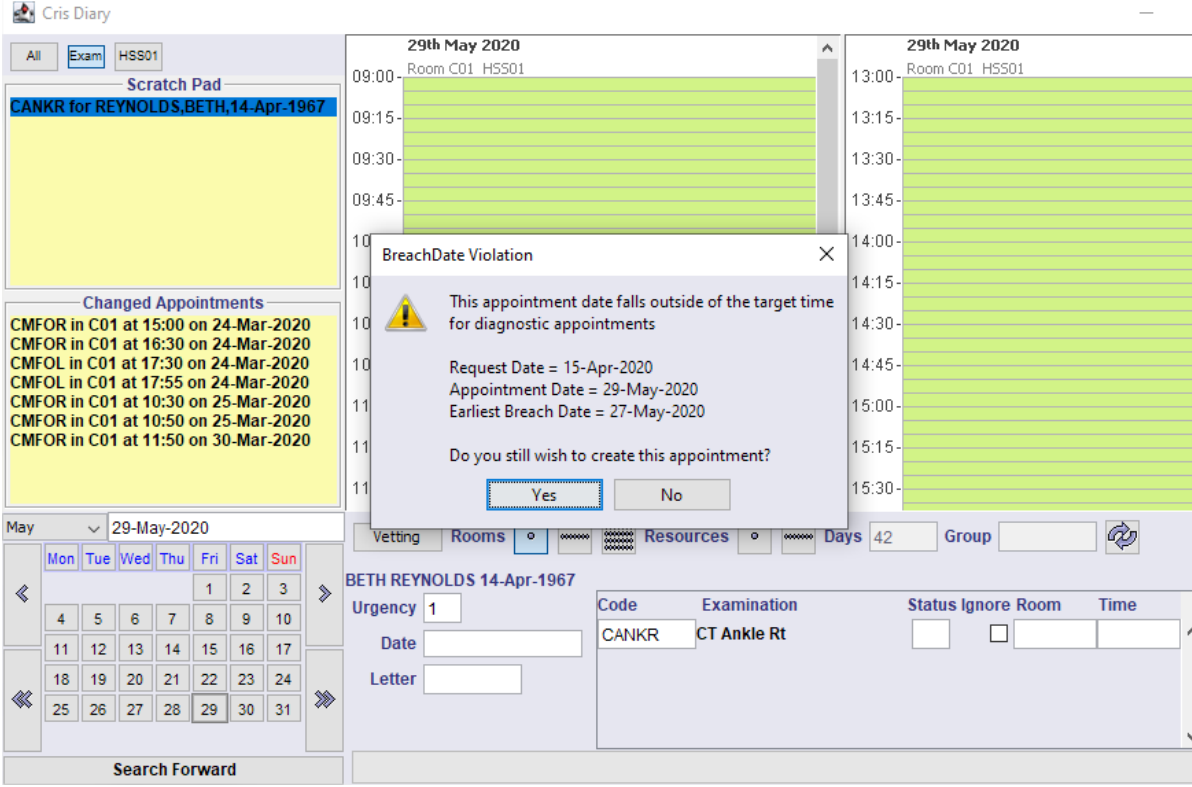
CRIS-3075@	Printed appointment letters and request card scanned icon on all lists
Description	Currently, only one icon covers both scanned documents AND printed documents and you can't tell which it is by looking at the list. This is a little confusing.
Resolution	Within the lists there are now 2 new icons; a scanner icon to represent a scanned request card and a printer icon to represent a printed appointment letter or emailed appointment letter.
Fixed in	2.11.00

CRIS-2196@	Ability to configure Rooms and Diary slots to allow multiple Modalities
Description	As a clerical user I want to be able to book multiple modality types in any room in the diary so that I can have multiple modalities being booked into one room i.e. Ultrasound and Obstetric Ultrasound
Resolution	Within the Places > Rooms and Other Tables > Appointment Tables > Diary set-up you can now implement up to 5 modalities to enable appointments to be booked into a mixed modality room. For example, a common dual room Fluoroscopy and X-ray. By editing the Rooms and diary slots to hold both F and R modality type you can now book any allowed modalities, whilst not allowing other types of modalities. If no modality is set, this is a wild card accept – all modalities..
Fixed in	2.11.00

CRIS-2165@	Ability to configure diary slots to allow multiple Patient Types
Description	As a receptionist or clerical admin, I would like to be able to book multiple patient types into the required diary slots – i.e. Outpatient and GP direct Access between 1100 – 1300 and 1500 and 1500
Resolution	Within the diary slots you can now implement up to 5 patient types which allow appointments to be booked into the diary slot. For example, it is now possible to schedule both Outpatients and GP direct Access but prohibit In Patient and Day Case, or vice versa. By editing diary slots to hold different patient types, you can now book both patient types at required times of day, whilst not allowing other types of patients to be booked into those slots. If no patient type is set, this is a wild card accept – all patient types.
Fixed in	2.11.00

CRIS-4268	Appointments with date of 01/01/2099
Description	There is an issue where two users are updating an event at the same time. One user has the event opened in the Diary and the other user has it opened in the 'Event Details' page. The user in the diary adds the event into a valid slot. The user in the 'Event Details' page has no idea of this change but makes changes to the event and saves. This subsequently changes the event date to 01-Jan-2099 and overwrites the appointment date in the diary.
Resolution	Validation checks are now made whenever the user applies an action to the event, e.g. save, change, attend etc. If the event and/or exam(s) have changed, the user is notified of this fact and asked to store any changes made before the workflow is cleared.
Fixed in	2.12.00

CRIS-4927@	Warning In Diary if Waiting Time is Breached
Description	When a user adds an appointment to the diary that breaches the wait times, the user would like a warning message to be displayed thereby assisting the Trust to avoid breaching its targets.

Resolution	A new check has been implemented, using the existing breach date calculations within CRIS, to warn the user if the event being added to the diary exceeds the basic breach date. This only is used if: a) A single exam in the diary Scratchpad is dragged into the diary page, or b) [Search Forward] is used with only 1 exam selected. In case a) the message details the date; the appointment is trying to be set to. In case b) it states that the search is extending beyond the breach date for an appointment the user is looking to book. (i.e. don't waste time looking for something you might not want). If a warning occurs, the given options are to abort, or proceed even though the user is aware the appointment date is beyond the breach date. Please note: If multiple exams are selected, no warnings are given. 
Fixed in	2.12.01

Document Scanning / Attaching Documents

There are no functional changes applicable to this release.

Reception

There are no functional changes applicable to this release.

Post Processing

CRIS-1955@	CRIS GUI & Postexm database table - Seconds value
Description	The value "Seconds" in the postexm table can hold a maximum value of 9999.99 and a minimum value of 0000.01: This is a concern as X-Ray exposure is collected in milliseconds, which means CRIS is unable to accurately record exposure time in centiseconds. A database change should be made to allow 3 decimal places rather than 2 and the CRIS GUI should allow more than 2 decimal places
Resolution	Update postexm table as follows. ALTER TABLE postexm ALTER seconds TYPE NUMERIC(8,4); ALTER TABLE postexm ALTER mas TYPE NUMERIC(12,4); ALTER TABLE postexm ALTER dosage TYPE NUMERIC(12,4); PostExam seconds, mAs and dosage validation adjusted to allow 4 digits before the decimal place, and 4 places after. i.e. 9999.9999 or 0.0001 are both valid.
Fixed in	2.10.00

CRIS-1262@	Re: [Reference#0030947] Increase decimal places for recording dose
Description	Allow more accurate recording of very low dose radiation exposures. Some examination doses are being recorded as zero because we cannot record more than two digits beyond the decimal point which is inaccurate. We require accurate dose recording to be able to monitor and present records to the CQC and other bodies as requested.
Resolution	mAs, dosage and seconds all now support 4 decimal places in the GUI and the database.
Fixed in	2.10.00

CRIS-3191@	Stop post processing automatically opening images from post processing
Description	As a user I want to be able to set the DTI integration to my personal preferences in the Post Processing screen.
Resolution	Created a 'post-processing' specific user preference to save the state of the 'PACS Integration Off/On' button.
Fixed in	2.10.10

Dictation

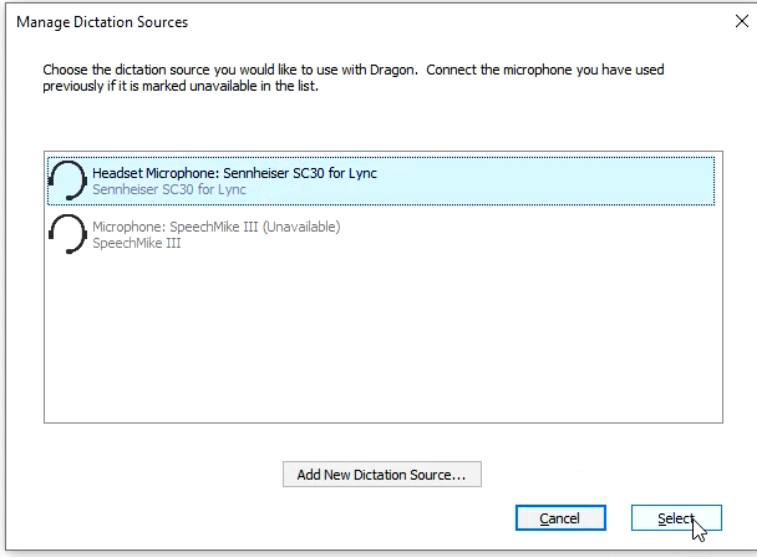
CRIS-3925@	'Hospital Number' added to Porters List & Dictation List
Description	Customer request to add a column for Hospital Number on the Porter List and Dictation List worklist.
Resolution	The 'HospNo' column has been added to both the 'Dictation' and 'Porters' lists.
Fixed in	2.12.00

Voice Recognition

Bug Fixes

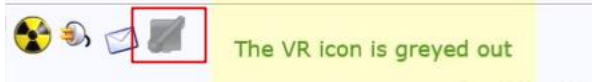
There are no functional changes applicable to this release.

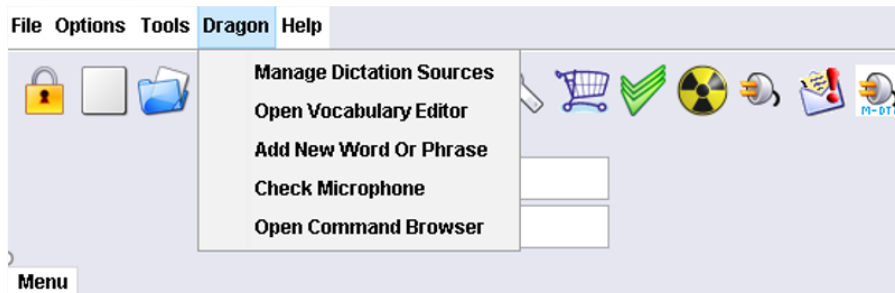
Enhancements

CRIS-4966	Dragon 13 – Dictation Source Change
Description	When a CRIS user has multiple dictation sources in Dragon 13 they are presented with a list of them in CRIS when they log in. The list is displayed but there is no way to tell the user which dictation source is which. It would be useful if the dictation sources could be better identified to stop the user from selecting the wrong one.
Resolution	If an unrecognised audio source is present, CRIS will display the Dragon audio source dialog. This dialog will clearly indicate the sources available to the user. 
Fixed in	2.11.03

CRIS-5057	Dragon 13 local profile implementation
Description	Users need to be able to continue to use Dragon VR, even when the network drive containing their main profile is not available, thereby enabling them to continue to work when experiencing network issues.
Resolution	Dragon has the option for multiple locations to be configured for roaming profile via Administration Settings. If both entries are configured – The master network location and a 2nd failover location that is not backed up - i.e. master at J:\Dragon, and the 2nd one is at C:\Dragon (i.e. the local machine) and Trust IT or RIS / PACS copies the master profile to the 2 nd location for any users who will want this failover facility – i.e. Dr Smith's profile is copied from J: to C:, CRIS can check for the 1st one

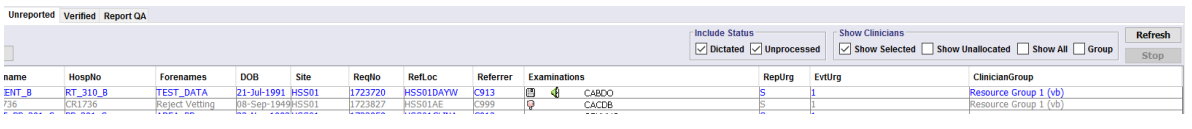
	failing, and tell the user they are going to get the failover profile. This will not however be backed up by CRIS and will only be used if the network share to the master share fails.
	<u>Please note:</u> This function is only available for Dragon 13
Fixed in	2.11.03

CRIS-3880@	VR – Icon grey while active
Description	The dragon icon in CRIS remains grey even when the mic is active and working in a report.  The VR icon is greyed out There are two XR Settings - VOICE.DragonReportingStartState_AutoON and VOICE.DragonReportingStartState_AutoOFF If these are not set to a value, then the code throws a suppressed exception that causes the activation of the VR Icon to be skipped.
Resolution	The application now contains a default of 3 (Mic sleeping) to both of these values in code so that it will work if not set up properly. The site setup guidelines do stress that these should be set, so this fix is precautionary only.
Fixed in	2.12.00

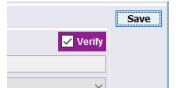
CRIS-4935@	Dragon 15 Implementation
Description	Dragon 15 Voice Recognition is now integrated with CRIS. Dragon 15 includes several improvements over earlier versions including better profile management via the DMC (Dragon Management Center) and improved recognition quality.
Resolution	The Nuance Dragon 15 – Medical Practice Edition Webpage https://www.nuance.com/healthcare/provider-solutions/speech-recognition/dragon-medical-practice-edition.html Nuance Dragon 15 – Medical Practice Edition Release Notes https://www.nuance.com/products/help/dragon15/dragon-for-pc/enx/dmpe/Content/ReleaseNotes/DMPE_relnotes.htm Nuance has removed the system tray menu from this version, therefor all commonly used items are now available from within CRIS itself. 
Fixed in	2.11.06 / 2.12.03 recommended

CRIS-6623@	Augnito Voice Recognition Introduced
Description	Augnito Voice Recognition from Scribotech, is a cloud-based AI speech recognition engine with integrated medical vocabularies to enable you to start dictating instantly with minimal set-up and eliminating the need to train and maintain a user profile No software has to be installed locally. CRIS just needs to configure to access to the service. There are no user profiles or individual dictionaries, therefore no ongoing maintenance. We do however recommend deploying from 2.12.10 onwards.
Fixed in	2.12.05 / 2.12.07

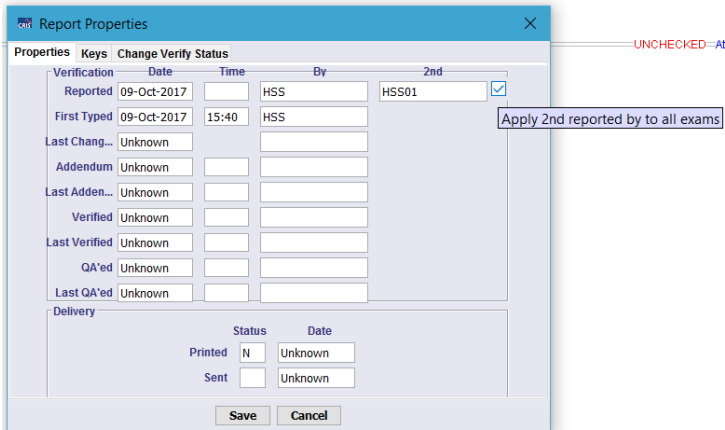
Reporting

CRIS-1842@	Events allocated to a group – Unreported tab & Clinician Group Column
Description	Events allocated to a group in the unreported list are showing as unallocated.
Resolution	ClinicianGroup column now added to all event lists. (i.e. [Vetting], [ReportList > Unreported]). As it is possible for multiple GROUPS to be associated with an exam we return all groups associated with the exams in the event. 
Fixed in	2.10.00

CRIS-1251@	Re: [Reference#0039076] Finished report clicking area
Description	The 'clicking area' around the 'checkboxes' on the 'report finished' page are too large. This can cause the checkbox to be selected in error.
Resolution	Verify checkbox moved close to the [Save] button and the font has been made bold to attract attention. There is little area around the checkbox that could be accidentally clicked on to change the checked box status. No actual function code has been changed. Only the GUI position and label font for the checkbox. 
Fixed in	2.10.00

CRIS-1919@	[Reference#0052341] Configurable "verify" tick box on report QA screen
Description	It is currently possible to accidentally verify reports from the report QA screen when following the workflow. Exams are provisionally reported by a 1st Checking Clinician (i.e. SpR) who works through the outstanding report 'For Checking' QA list. If they agree with the first report in the list and tick the "verify" check box via [Save] in the Finished screen following the addition of comments this is retained as expected for all subsequent reports and will need to be manually removed as applicable. It is expected that standard use is to use the buttons on the main Report Editor – i.e. [Verify] if required or [Skip] if the report will be reviewed by a senior clinician. However, is the clinician wishes to record a comment, or to [Save] changes to the report without verifying they will still need to check or uncheck 'Verify' as applicable.
Resolution	The verify checkbox now highlights if the user moves the mouse close to the Save button, thus hopefully registering a visual clue to the current state of the verify 

	checkbox PRIOR to pressing the Save button. This enables the user to apply or disable the option as applicable.
Fixed in	2.10.00

CRIS-1732@	[Reference#0063025] Restore Edit Tape Details for Unverified Reports
Description	If editing the tape details, for a provisional report it should be possible to apply a 2nd Clinician, if the field was previously blank or to overwrite any existing 2nd clinician (i.e. a fake / pseudo clinician) Restore original functionality (based on shared consortia scenario of workflow).... 'Unchecked' - Ticking this option will save a provisional report that is 'Unchecked' and will place the report on the [Batch Verify] List of the 2nd Consultant. This must be either be entered via the [Tape Details] by clicking the tape icon and adding the 2nd Consultant into the second field at the time of typing an initial (i.e. new) report or via this box at the time of marking the record as Unchecked. This feature has also been developed to enable you to enter an Unchecked Clinician without ticking unchecked in order to attribute a 2nd Consultant without the report appearing on their verification list. This can also be entered retrospectively so long as the report has not been verified. A 2nd clinician should be applied to the verified report to show the checker of the report but not appear on their verification list.
Resolution	Added checkbox next to the 2nd checker field. If this is ticked, then the 2nd checker is applied to the summary and all the exams.  If not, then the field applies to just the selected summary or exam.
Fixed in	2.10.00

CRIS-5864	Report info list slow and showing memory errors
Description	Sites using 2.11.03 are experiencing issues running out of memory when using the report info list with large data sets. Originally, the query was a set of week-long segments to build up the complete list but now these queries have been replaced by a large single query which causes the application to run out of memory.
Resolution	Certain trusts can return 400,000 events in a 4-month period. Changes have been made to pull the events in date-chunks and tune it on-the-fly to try to pull around 8,000 events per pull. These are then filtered and passed to the main list if they apply. Typically, a date range of between 2 and 14 days is pulled and tuned to match the incoming event/range size to around 8000 events per pull. This

	should show an incrementing date range while the data is pulled and allow the option to stop when we have enough data. The data is pulled in date order.
Fixed in	2.11.06

Printing

CRIS-2564@	Letters batch printed from diary missing
Description	Letters are printed from the CRIS diary scratchpad, either in a batch or single exams, but the letters intermittently do not actually print out. A status of printed is assigned to the event even when not printed.
Resolution	This issue has been thoroughly investigated but has proven extremely difficult to reproduce. It is unclear where customer issues may lie and, if it transpires that these issues are within Windows' print queues then CRIS cannot affect this. Changes have been made to the application which we believe will significantly reduce the possibility of this event occurring and also to ensure that if it does then the status of the event will accurately reflect this. The user interface has been altered so that right-click  print from ChangedPad prevents any other activity until the print jobs have been processed and sent to the external queue. This is to prevent multiple threads possibly interacting with each other and causing unexpected behaviour. It can now be observed that pulling the network cable (or invoking Airplane mode) during printing will behave as required in that all events that have not yet been processed will not have status updated to "printed". The GUI is blocked while the Letters are being processed and a progress indicator is displayed on the screen for user visibility / information purposes. It should however be noted that Batch Printing turnaround times are increased as a result of this Clinical Safety related change.
Fixed in	2.10.05

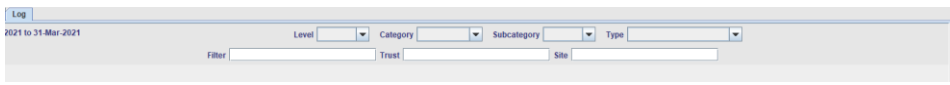
CRIS-2065@	Batch Printing Reporting Auto Commit Error
Description	When printing via batch print, some users report an error that appears stating 'Could not save report, cannot commit when auto commit is enabled'. Initial feedback from the sites suggest that the reports are printed once the user clicks ok on this message however this cannot be confirmed as we are unable to replicate on demand. This issue is almost identical to the resolved RFC for the same error when printing letters from the CRIS diary scratch pad (CR-1492), hopefully the same fix applied to this can be applied to this section of CRIS.
Resolution	This is linked to CRIS-2564 and has been addressed in a similar way. The whole batch request has been moved to a background thread, which should ensure that the StatusTable is updated sequentially as part of the PrintThread action. This has only been done for the range Batch printing, as this is what was causing the error. The GUI is blocked while the reports are being processed and a progress indicator is displayed on the screen for user visibility / information purposes. It should however be noted that Batch Printing turnaround times are increased as a result of this Clinical Safety related change.

	Please note: It is possible to open a second copy of CRIS to continue working before printing in the 1 st copy of the system.
Fixed in	2.10.05

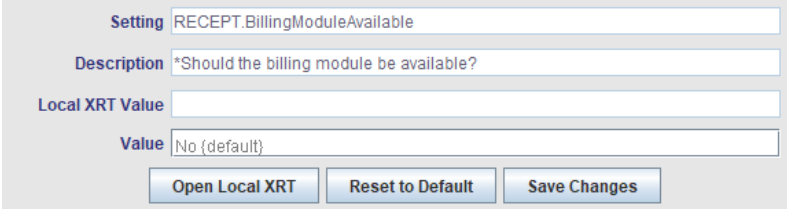
System Admin

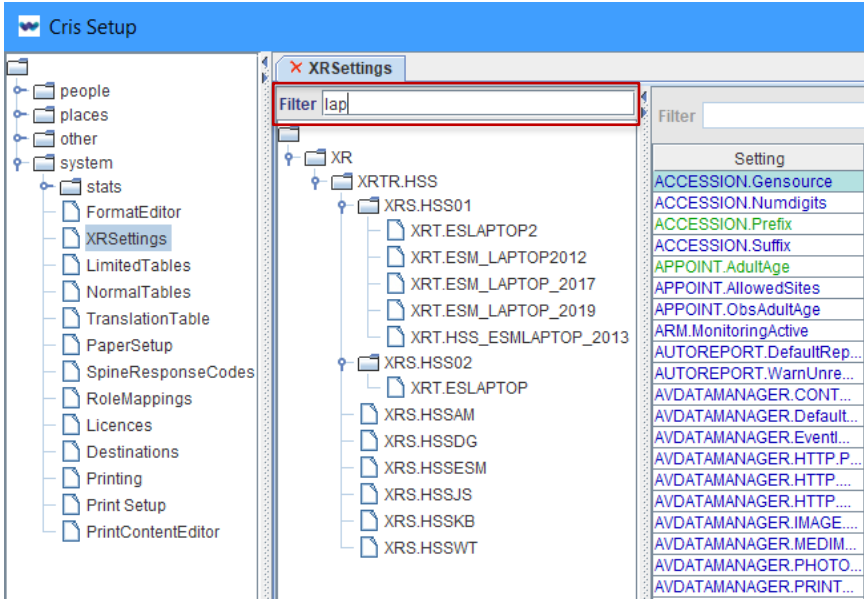
CRIS-1774	Add tool tip help in XR Settings table 'Description' column.
Description	When displaying the contents in the XR Settings table, sometimes the 'Description' contents of the 'Description' column is too long to be displayed in the table. To make this more accessible to the user, add a tool tip to the table 'Description' column and the 'Description' field so the user can see the entire length of the entry next to the table when the user hovers over the field.
Resolution	Implemented tool tip on description area of table.
Fixed in	2.10.00

CRIS-2404@	Referral Source to have email field
Description	A dedicated field is required for the email address of a referral source.
Resolution	It is now possible to input / store a referral source email address via the Referral Source table. This can be received and sent over the interfaces within the MFN^M02 segment as a custom field. The line for address 5 is also visible on the screen popup which states 'select referral source' alongside the email address of the referral source.
Fixed in	2.11.00

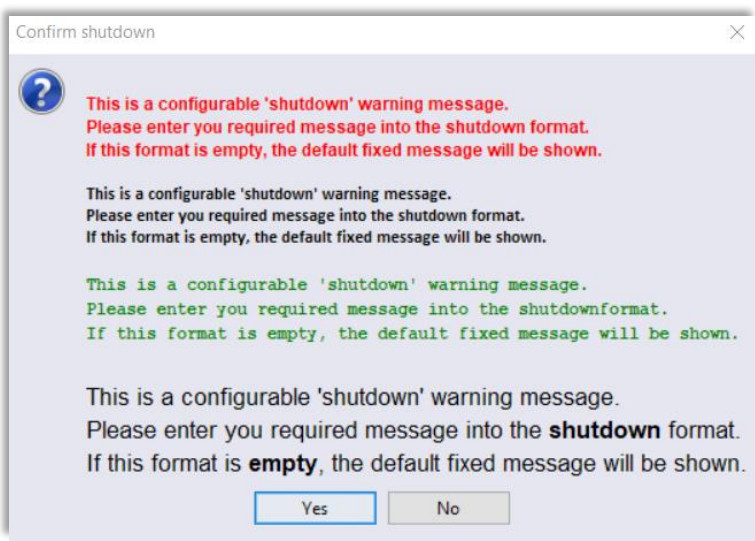
CRIS-5874	New 'Trust' and 'Site' filtering via View log
Description	Users within a consortium wished to be identify which PAS has updated the patient demographics. The 'demohis' database table just shows EJBSERVER as the 'by' field.
Resolution	To capture the PAS ID after a demographic update from the PAS, an appropriate log is produced that details all the relevant information. To help filter this log out from others, we have created a new subcategory type called 'PASDEMOUPDATED'. The log will display, among other things, the PAS ID from the message itself. This also means that the view log utility is more user friendly for customers in consortiums as they can now filter based on their Trust or Site, as a pose to a global consortium view log. 
Fixed in	2.11.06

CRIS-3789@	Provide a way to identify the default (blank) value of an XR setting
Description	Currently, when looking at the XR settings screen, there is no clear indication of the 'default' value of a setting should it be blank.
Resolution	The XR settings panel has been amended by adding the default state into the settings area, for those settings that have a fixed default in the source code. If you pick a setting from the XR-settings panel and there is nothing set by a user AND it has a default against the setting, the default is displayed in the value panel in grey, and {default} is appended to the value on screen. i.e. No {default}

	 Keys with a known default also feature an asterisk at the start of the description: <table border="1" data-bbox="311 504 1340 743"> <tbody> <tr> <td>PRINTER.Stats</td><td>The printer used to print stats</td><td></td></tr> <tr> <td>PRINTER.StatsDS</td><td>Print stats double sided</td><td>N</td></tr> <tr> <td>PUKKAJ.NCaseConfig</td><td>PACS pukkaj configuration</td><td></td></tr> <tr> <td>RECEPT.AllowDuplicateHospitalNumbers</td><td>*Allow duplicate hospital numbers in othe...</td><td></td></tr> <tr> <td>RECEPT.AutoLabelPrintOptions</td><td>*Automatically fill in print options for labels</td><td></td></tr> <tr> <td>RECEPT.AutoPrefixWard</td><td>*Prefix the referral location with the referral...</td><td>Yes</td></tr> <tr> <td>RECEPT.BillingModuleAvailable</td><td>*Should the billing module be available?</td><td></td></tr> <tr> <td>RECEPT.CollectAENumber</td><td>*Allow input of AE number</td><td>No</td></tr> <tr> <td>RECEPT.CollectPathway</td><td>*Show Pathway field in Event Details</td><td>Yes</td></tr> <tr> <td>RECEPT.CollectRadiologist</td><td>*Allow input of intended clinician</td><td>Yes</td></tr> <tr> <td>RECEPT.CollectRoom</td><td>*Allow input of room for an examination</td><td>Yes</td></tr> </tbody> </table>	PRINTER.Stats	The printer used to print stats		PRINTER.StatsDS	Print stats double sided	N	PUKKAJ.NCaseConfig	PACS pukkaj configuration		RECEPT.AllowDuplicateHospitalNumbers	*Allow duplicate hospital numbers in othe...		RECEPT.AutoLabelPrintOptions	*Automatically fill in print options for labels		RECEPT.AutoPrefixWard	*Prefix the referral location with the referral...	Yes	RECEPT.BillingModuleAvailable	*Should the billing module be available?		RECEPT.CollectAENumber	*Allow input of AE number	No	RECEPT.CollectPathway	*Show Pathway field in Event Details	Yes	RECEPT.CollectRadiologist	*Allow input of intended clinician	Yes	RECEPT.CollectRoom	*Allow input of room for an examination	Yes	
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RECEPT.CollectRoom	*Allow input of room for an examination	Yes																																	
Fixed in	2.12.00																																		

CRIS-3890@	XR Option Filter	
Description	A filter is required to add the ability to search XR terminal IDs in order to find specific terminals. This will allow the user to quickly identify a particular terminal within a long list. This feature would be beneficial when performing normal sys admin tasks.	
	A filter has been added to the XR settings setup page to allow the terminal id to be filtered. 	
Fixed in	2.12.00	

CRIS-5126@	Allow Shutdown message to be customised	
Description	The XR setting General.Warnshutdown causes a shutdown message to be displayed. This message should be configurable.	
Resolution	A new format - 'SHUTDOWN' has been created to hold the user configurable text which is created via System > Formats with the format name. This message can be creating using plain text or can support HTML formatted text if required.	

	
Fixed in	2.12.02

Statistical Reports

CRIS-1957@	Add stats field to include various patient demographics
Description	Stats fields required in the HIS and Patient tables: - NHS verification status - Religion - Race - Marital_status - Primary_language - Citizenship - County_code - Account_number
Resolution	These fields now populate the database fields enabling stats to be taken for these variables, as 'output selections' in stats.
Fixed in	2.10.00

CRIS-281	Attend to First Verify - Stats function
Description	Create a new stats field to show Attend to First Verify.
Resolution	If a multiple exam event exists with a report summary within the database, the report summary attaches to the first exam. The new REPORT stat fields looks for exams that are associated with a report and will neglect any 2nd exams that were created as these are not associated. The EXAMS new stat will look for reports associated and if not found will look for events associated. Added stat fields for: 'REPORTS' 'ATT TO FIRST VER DAYS' 'REPORTS' 'ATT TO FIRST VER HOURS' 'REPORTS' 'ATT TO FIRST VER MINS' 'REPORTS' 'ATT TO FIRST VER STR' Used alongside reports output field. To show the time between the exam being performed and the report directly associated with it being first verified. Will neglect any exams without their subsection being filled in within the stat unless that exam has a summary report. 'EXAMS' 'ATT TO FIRST VER DAYS' 'EXAMS' 'ATT TO FIRST VER HOURS'

	'EXAMS' 'ATT TO FIRST VER MINS' 'EXAMS' 'ATT TO FIRST VER STR' Finds the length of time between the exam being performed and a report associated with the same event being first verified. This would be used for those sites using exam summary rather than exam subsections.
Fixed in	2.10.00

CRIS-2026	Hover help description - stats output time stamp
Description	As a user when I hover over a selection stat for weeks, days or month I want to see the description to be for the accumulative value.
Resolution	For the stats field Report ATT to first verify and EXAMS ATT to first verify there is a change to the hover help description. Hover help changed to stats time methods to represent the following: - Days element of elapsed time between attendance and report verification - Hours element of elapsed time between attendance and report verification - Minutes element of elapsed time between attendance and report verification
Fixed in	2.10.00

CRIS-1898@	[Reference#0071815] RIS_STAT204 – ISB 1577 DIAGNOSTIC IMAGING DATA SET - Correction required to prevent data being incorrectly omitted from National Return
Description	Formal change request for the RIS_STAT204 DID Report Template to be updated as it's currently wrong and needs to be corrected as it's providing incorrect results as it stands.
Resolution	Added a database update maintenance task which finds the RIS_STAT204 template and changes REPORTS DATE_VERIFIED to EXAMS DATE_LAST_VERIF. The stat shows all attended patients irrespective of whether the event is reported or not. Using REPORTS meant that it immediately excluded any unreported events. Using EXAMS instead means both reported and unreported events are returned which is critical to DID. It was also decided Last Verified was more accurate as this is the final issue date. <u>Please note:</u> The only the stat template will be updated. User created stats based on this template won't be changed.
Fixed in	2.10.00

CRIS-3054@	Add an hourly option to scheduled stats
Description	A customer would like to schedule regular stats every hour so they can add this to the existing ability to schedule them every 5 minutes and every day, to allow the department to supply and submit better information to trust management and reduce the level and numbers of scheduled stats that need to be run.
Resolution	H option added to the database NORMAL table CRISSRPT. H option added to StatsScheduler code to recognise the option.
Fixed in	2.12.00

CRIS-5593	Alarms - record and display who added the Alarm
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'Inclusive' Modules

Sessions Module

There are no functional changes applicable to this release.

Messaging Module

There are no functional changes applicable to this release.

Resources Module

There are no functional changes applicable to this release.

Nuclear Medicine Module

There are no functional changes applicable to this release.

Portering Module

CRIS-1848	[Reference#0023980] Porter module - Incorrect porter
Description	Any changes made to a porter request will change the requested porter to the user who made the change. This can change the requested porter to someone who is not a porter.
Resolution	If a porter exists for a Porter event, leave the porter as is... Even if the porter is marked as Blank.
Fixed in	2.10.00

CRIS-3925@	'Hospital Number' added to Porters List & Dictation List
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Obstetrics Ultrasound Module

CRIS-1624@	3VT VIEW - UPDATE TO CARDIAC PROTOCOL
Description	The 3VT view was added to the FASP's fetal cardiac protocol. This brings the number of views that sonographers have to take of the heart of the fetus to 5. This applies to every pregnant woman at the 18-20 week scan, which is when the fetus is checked for any major physical abnormalities.
Resolution	3VT field added to ANATFA, ANOMFA, DETFA, ANATNW, DETNW
Fixed in	2.09.10t1g

CRIS-2214@	3VT in old forms reverts to 'seen' instead of blank
Description	As a user using Obstetric forms for ANATFA, ANOMFA, DETFA, ANATNW, DETNW. I don't want to see any 3VT field on those forms prior to the upgrade to 2.10.00 on the live system. This is so that a blank field doesn't appear as not noted on historical reports.
Resolution	A new XR setting - REPORT.Obs3VTCutOffDate - has been provided to prevent the 'heart 3VT' field being available with legacy reports. The date of the upgrade will have to be inputted into this XR setting in the following format DD/MM/YYYY
Fixed in	2.10.01

Additional Modules

Fetal Anomaly Screening Programme (FASP)

There are no functional changes applicable to this release.

Billing Module

CRIS-848	Reference#0028895 — PP Reg Form showing scan price has doubled
Description	When trying to print the Patient Registration form for appointments, if the particular cost item had both active and inactive entries, the application would calculate the scan price for both records. The caching problem occurs due to the temporary nature of all appointment billing costs. These temporary costs are not handled correctly within the cache, whereas all attended events are calculated correctly.
Resolution	Verifying the 'Price of Scan' against an appointment now returns the correct cost.
Fixed in	2.10.00

CRIS-1558	Re: [Reference#0051434] #00412314 VAT Calc Incorrect - INVOICE SD58232EAS
Description	VAT is calculated in the Billing Module of CRIS and rounded to two decimal places. This is causing discrepancies with contracts where invoices have many invoices each with rounding errors. HMRC guidance is that four decimal places should be used.
Resolution	The VAT calculations are now carried out and display to a precision of 4 decimal places. You will see the changes in the following areas: ▪ Billing GUI tables where a VAT column is present ▪ All printed/preview printing templates ▪ All message data to the GreatPlains interface ▪ Output window within the 'Price Lookup' tool
Fixed in	2.10.00

CRIS-1558	Re: [Reference#0051434] #00412314 VAT Calc Incorrect - INVOICE SD58232EAS
Description	VAT is calculated in the Billing Module of CRIS and rounded to two decimal places. This is causing discrepancies with contracts where invoices have many invoices each with rounding errors. HMRC guidance is that four decimal places should be used.
Resolution	The VAT calculations are now carried out and display to a precision of 4 decimal places. You will see the changes in the following areas: ▪ Billing GUI tables where a VAT column is present ▪ All printed/preview printing templates ▪ All message data to the GreatPlains interface ▪ Output window within the 'Price Lookup' tool
Fixed in	2.10.00

OTRS 00128108	CRIS number on invoice for insurance and hospital contracts
Description	The application code has been amended to provide the CRIS number from a contract of any type. To access this functionality, the 'contract_invoice_1' printing template will need amending as follows
Resolution	The customer will need to amend their 'contract_invoice_1' invoice printing template. Wherever they try and print the CRIS number within this template, they need to replace the script with the following:

	Within the Condition field, enter this script: <pre>if (invoice.getKey() > 0) crisNo = "~BCRIS No :~b " + invoice.getAnyPatient().getcris_number(); crisNo != null</pre> within the expression field, create this variable: <pre>crisNo</pre>
Fixed in	2.10.14

CRIS-3839	Receipt Printing in 'Advanced' billing
Description	Implementation of the 'Patient Receipt' printing feature found in 'normal' billing, into the 'Advanced Billing' module. This new functionality only applies to 'Adhoc', 'Self-Payer' contracts.
Resolution	This feature is enabled by setting the XR Setting ' GENERAL.PatientReceiptPrinting ' to 'Yes'. It will be 'defaulted' to 'No' so please ensure this setting is set.
Fixed in	2.10.14

CRIS-3839@	Implement Receipt Printing in 'Advanced' Billing
Description	Users need the ability to print 'receipt' for all 'self-payer' contracts.
Resolution	The printing features have been amended to provide 'receipt' printing for 'self-payer' patients.
Fixed in	2.12.00

CRIS-4187@	Billing – Invoices missing CRIS numbers
Description	Billing user wants to see the CRIS number on invoices regardless of the contract type so that they can easily link back to the CRIS record from an invoice
Resolution	The functionality is now available to display the CRIS number for a patient associated with an invoice irrespective of the contact type. Amended code to ONLY display the CRIS number for 'AD HOC' contracts. The invoices for these contracts are printed by event, so the patient's CRIS number will be available.
Fixed in	2.12.00

CRIS-3992@	Billing allows different currencies but still shows £ sign not the locality currency (e.g. €)
Description	Currently, the currency symbol (£) is hard coded into the printing templates. If this is not the location's currency, it will need to be changed manually wherever it exists within the printing configuration system.
Resolution	Existing templates will need amending to access new a new currency object, but once this is done, the currency symbol will depict the currency of the locality.
Fixed in	2.12.00

Medical Photography

CRIS-4849@	Allow image compression from IMAGIO function in CRIS (Medical Photography) to be configurable
Description	A customer has identified an issue whereby applying compression to already compressed images was causing image quality to drop below acceptable levels in the Med Photo Module.
Resolution	The user is now able to adjust the compression between 0 and 100. This is done via a new XR setting – AVDataManager.PHOTO.Quality. If the quality is > 1 then this is classed as a percentage of 1-100. (100 should be lossless).

	- If less than or equal to 1 and > 0, this is a 0-1 range and is effectively multiplied by 100 to give a percentage. - If set to '0', this is 'as-is' and will store the file exactly as presented. This may therefore cause a large data storage requirement. In addition, improvements have been made in the memory management and user feedback when loading large images into Cris.
Fixed in	2.12.01

CRIS-4950@	Allow image compression from IMAGIO function in CRIS (Medical Photography) to be configurable
Description	The CRIS Medical Photography module did not support the saving of TIFF images.
Resolution	TIFF images are now supported.
Fixed in	2.12.01

MFN (Master File Notifications)

2.1100 introduces Master File Notifications which automatically update the Referrer, Referral Source tables and Referral Location and Referrer Source Links tables if required. This is a chargeable function and will need to be requested, ordered via your Client Manager and deployed by the operations team. The following changes are exclusively related to this functionality and can be ignored if this function is not applicable within your current contract.

CRIS-1655	Master File Notifications (MFN)
Description	As a user, I require the referrers, referral sources, and referral locations tables and the referrer / referral source link tables to be updated in real time whenever these sources are updated in the PAS, so I can keep these reference sources in sync with the PAS versions of these sources and for PAS to become the master of the content.
Resolution	A range of changes were made to support MFN^M02 and MFN^M05 HL7 messages, both for incoming messages, assumed to be from a PAS system, and for outgoing messages to a related PACS system. MAD (Master Add) and MUP (Master Update) messages are supported, but MDL (Master Delete) messages merely result in an acknowledgement in the log, fulfilling the decision that deletion should remain a manual process. The key database tables affected by these changes relate to referrers, referral sources and referral locations. In addition, the referrer / referral source link table is also updated. Upon changes to the database, cached tables are refreshed, in order that future messages are handled in a coherent fashion, without the requirement to reset the interface server system itself. Additional logging has been introduced to facilitate the tracking of issues.
Fixed in	2.11.00

CRIS-2436	Referral source email MFN^M02 ZRS segment
Description	Need to add an 'email address' property to the ZRS segment within both an incoming and outbound MFN^M02 message.
Resolution	The referral source now has an email address which can be created/updated via an inbound MFN02 message and changes made are sent outbound.
Fixed in	2.11.00

CRIS-2376	Log for MFN messages
Description	CRIS needs to log all changes made via MFN messages. These logs must include the addition or update of referrers, referral sources, referral locations and referral links
Resolution	MFN02 and MFN 05 logging is now implemented. A log is made whenever an MFN incoming messages creates/updates the CRIS database via the View Log utility. Additional Information The following new entries have been added to the 'CRISLOG' normal table Subcategory = MFN02 and MFN05 added under the INTERFACE code The following new entries have been added to the CRISLGTP normal table: ▪ REFERRERADDED new referrer added ▪ REFERRERUPDATED existing referrer updated ▪ REFSRCADDED new referral source added ▪ REFSRCUPDATED existing referral source updated ▪ REFLINKADDED new referrer link added ▪ REFLINKUPDATED existing referrer link updated ▪ LOCADDED new location added ▪ LOCUPDATED existing location updated
Fixed in	2.11.00

CRIS-2386	PRA segment - Not allow Groups inbound or outbound
Description	As a radiology user I don't want the group field within the referrers table to update So that I can continue using it for stat grouping
Resolution	The 'Practitioner Group' field is no longer updated by an MUP type MFN02 message. The new value is ignored, and the existing value is used. The 'practitioner group' field will reflect the current value in CRIS's database and sent downstream. So, effectively, only a change via the CRIS GUI will be reflected in any 'outgoing' message.
Fixed in	2.11.00

CRIS-2389	Referral source Trust versus Site
Description	Trust codes are 3 digits and NACS codes are 5 characters in length. This means Trusts codes have to be suffixed with 2 x leading 0's at the end of the referral source trust code to comply with system validation. The MFN messages need to automate these 2 extra 0's or allow the referral source to be 3 or 5 digits in length, to accommodate trust and site.
Resolution	A referral source of <trustcode>00 is created when a MFN02 message is received with a ZRS segment. This 'default' referral source will be created once and only once, for each unique trust code.
Fixed in	2.11.00

CRIS-2390	Attribute to be added for MFN^M05
Description	As a user, I do not allow MFN^M05 to populate the referral location unless the attribute, SuppressMFN05 , is set to false so I can control new locations being created. Default behavior is to suppress all inbound and outbound MFN05 messages.

Resolution	Created a new SuppressMFN05 attribute for both the incoming ' 30-tableupdate-service.xml ' and the outgoing ' 30-tu-test-service.xml . The 'default' is set to 'true' to suppress any MFN05 messages, so only need to configure this attribute if you need to receive/send this message. In practice we feel it is unlikely that customers would want Referral Location updates from PAS as they are often hybrids of clinics and referrers which would cause confusion and duplicate entries in the CRIS Referral Location table. The function can be enabled but only upon request and sign off by the customer.
Fixed in	2.11.00

CRIS-2391	Referrer links not to be received or sent outbound
Description	As a trust, I don't want the referrer link sent outbound or inbound so that PAS cannot send to CRIS and PACS can't send out.
Resolution	The likelihood of CRIS receiving anything in MFI:2 is very slim, so the chances of receiving 'REFLINK' are even smaller, so just as a backup, I have created another attribute (SuppresMFIMAIID - which is configured in ' 30-tableupdate-service.xml ') which we can populate with the text we want to trap and thus suppress the message.
Fixed in	2.11.00

CRIS-3371@	MFN Audit - Add "Extra Detail" for Referral Sources, RefLinks and Referral Locations
Description	MFN messages are outputted into the View Log Table, but this is at consortium level and there is currently only "Extra detail" (used in EXCEL export) for Referrers. Extra detail should be added for Referral Sources, Referral Links and Referral Locations as customers will want to know what MFN messages have been processed and some may require remedial configuration – i.e. Blank SHA's.
Resolution	All MFN related logging now contains meaningful 'extra data' outlining what has changed. Each MFN05 addition/update now has its own log entry
Fixed in	2.12.00

Interfaces

CRIS-1733@	Re: [Reference#0062805] Event Cancellation Enhancement
Description	Enabling request/exam cancellation (via the HL7 order communication update message) up to the point the patient attends for the exam, provides the greatest protection to the patient, and is what we wish to implement". The current system enables this cancellation message to be enacted prior to the order becoming a request in CRIS. We therefore wish this function to be extended to the point of patient attendance/appointment
Resolution	OCS can now cancel existing orders that are part of a CRIS event, as long as that event hasn't been appointed nor attended. Cancelling a single exam from a multiple exam event, removes that exam from the GUI. Once all exams are cancelled on the event, the event is 'greyed' out on the GUI and ALL appropriate status information is updated to clearly indicate that the complete event has been cancelled by OCS. A new status code has been created (CHNROS) to distinguish between CRIS cancelled and OCS cancelled events. A new interface attribute - OCSCancellingCRISEvent - is needed in the incoming PAS interface file. A new script - 'suppOCSCancellation.bsh' - will need including in the outgoing PAS interface file.
Fixed in	2.10.00

CRIS-3832	Add 'default' referrer attributes to the PAS/OCS Interface
Description	Users need the ability to assign a default GP or Consultant referrer to an order if the referrer contained within the OMG19 message can't be found or does not exist.
Resolution	The new ' DefaultGPReferrer ' and ' DefaultConReferrer ' attributes values will now replace the invalid referrer code within the order message. These attributes will work for any time of order processing, orders > appointments, orders > requests and 'pure' orders.
Fixed in	2.12.00

CRIS-1899	New UniqueByEvent PASOCS Interface configuration attribute
Description	Customers want to be able to send out the multiple exam reports downstream to OCS using the same format as the PACS outbound interface so that OCS doesn't receive more than one report for all the exams merged into a single event / visit via CRIS.
Resolution	If the new UniqueByEvent attribute is set to true only one report per event / visit is sent as is currently the case on PACS interfaces. This new attribute dictates the number of HL7 messages that are sent to outbound interfaces. The attribute acts upon report trigger when verified. New attribute = 'UniqueByEvent' which must be configured in the 'OutgoingMessages' section of the 'pasocs' interface configuration files.
Fixed in	2.12.00

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Description	Customers want to be able to send out the multiple exam reports downstream to OCS using the same format as the PACS outbound interface so that OCS doesn't receive more than one report for all the exams merged into a single event / visit via CRIS.
Resolution	If the new UniqueByEvent attribute is set to true only one report per event / visit is sent as is currently the case on PACS interfaces. This new attribute dictates the number of HL7 messages that are sent to outbound interfaces. The attribute acts upon report trigger when verified. New attribute = 'UniqueByEvent' which must be configured in the 'OutgoingMessages' section of the 'pasocs' interface configuration files.
Fixed in	2.12.00

CRIS-5552	Allow orders with an invalid referrer code
Description	Customers noticed that they are no longer able to place orders for unknown referrers. This is a problem for them. An array of new functionality was added to the 'Incoming PAS' interfaces with the 2.12 release. One change was to 'trap' invalid referrers and reject the message but at the same time, offer the users a couple of alternatives to prevent this from happening. The customer does not want to use the alternatives and would like the invalid referrer to pass through into CRIS where it can be handled as applicable.
Resolution	Added ValidateReferrer interface attribute to the HL7/PAS interface. This will enable/disable the validation of the referrer code within an OMG^O19 message. The default operation will be that the

	validation is disabled, and the invalid referrer code will be pass through to CRIS. So, to enable this validation, the attribute must be present and set to 'true'.
Fixed in	2.12.02

PACS DTI

CRIS-2382@	Auto login CareStream DTI
Description	The current Bi-directional interface between CRIS and Carestream PACS does not support login messages sent from PACS to CRIS. This prevents a workflow of a user signing in to PACS and automatically also logging in to CRIS. Currently the user would have to log into CRIS first, which can then log the user in to the PACS, or would have to log in to both systems independently.
Resolution	The integration has been updated to support the stated workflow.
Fixed in	2.10.01

CRIS-2473	Provide default 'Assigning Authority' to McKesson DTI
Description	The McKesson/Change PACS at RNOH cannot distinguish between images from separate sites. There are two sites involved with this integration, RAN01 and RAN02. The PACS uses the single context of RAN01 when storing/receiving images from both sites. CRIS, on the other hand, uses both RAN01 and RAN02 when sending PACS messages. We need to implement a way to ensure RAN01 is sent to the PACS from every site. A new XR setting (REPORT.PACSWORKSTATION.SiteCodeDefault) is needed to provide a means of configuring a default 'Assigning Authority' (site code) which is used by CRIS for all outgoing PACS messages where the 'Assigning Authority' is used. A new normal table (SITECODE) will be created to provide appropriate values for the XR setting.
Resolution	The 'Assigning Authority' parameter on all outgoing PACS messages can now be configured to the appropriate value using the REPORT.PACSWORKSTATION.SiteCodeDefault XR setting. Currently, if this setting is not used or blank, the default will be 'RAN01'. This feature was already implemented in 2.09.10T1c_RNOH and has been ported into this release.
Fixed in	2.10.04

CRIS-4193@	F12 Viewer to display same drop-down menu as Reporting and Post-processing
Description	The 'PACS Images' drop-down menu that can be found on both the 'Report Editor' and 'Post Processing' pages, need incorporating into the F12 Report Viewer. This will enable individual exam images to be requested within multi-exam reports.
Resolution	F12 Viewer can now issue requests for individual exam images to be opened on the PACS, falling in line with both the report editor and Post processing pages.
Fixed in	2.10.13

CRIS-2769 ported from CRIS-2462	Providing default 'Assigning Authority' to McKesson DTI
Description	The McKesson PACS at RNOH cannot distinguish between images from separate sites. There are two sites involved with this integration, RAN01 and RAN02. The PACS uses the single context of RAN01 when storing/receiving images from both sites. CRIS, on the other hand, uses both RAN01 and RAN02 when sending PACS messages. We need to implement a way to ensure RAN01 is sent to the PACS from every site.
Resolution	The 'Assigning Authority' parameter on all outgoing PACS messages can now be configured to the appropriate value using a dedicated XR setting. Additional Information New XR setting - REPORT.PACSWORKSTATION.SiteCodeDefault . Currently, if this setting is not used or blank, the default will be 'RAN01'.
Fixed in	2.11.00

CRIS-5638	Close procedure in RIS when new patient study opened in Insignia PACS
Description	An issue was spotted by a customer using version 2.11.03. An XR setting had been missed as part of an earlier porting task.
Resolution	Code ported from 2.10 so that the following XR settings are available: REPORT_PACSWORKSTATION_INSIGNIA.AcceptContextChanged - always set to 'Yes' REPORT_PACSWORKSTATION_INSIGNIA.EnableInvalidDataMessage.
Fixed in	2.11.05

CRIS-4853#	RFC Bug – Incorrect Images loaded on PACS causing mismatch
Description	Customers have reported issues with images in GE PACs being mismatched with the report open in CRIS. This can happen randomly to a small number of users on site, as such, the issue cannot be replicated easily on demand. The workflow isn't anything different to normal workflow in that the user opens a report in CRIS, the correct images are loaded in PACs briefly but then the previous patient report has their images loaded on PACs. Wellbeing have been in discussion with GE over several weeks while investigation was conducted, in the end the decision was to setup a piece of work to address the handling of DTI responses from GE > CRIS.
Resolution	If any COM exceptions be produced by the PACS, the exception codes would be passed into CRIS and a suitable message displayed highlighting the problem. A new DTI has been implemented – ge2020 – to ensure the original GE PACS DTI is unchanged. Ensure that this DTI is selected from the 'REPORT.PACSWorkstationInterface' XR setting.
Fixed in	2.12.01

CRIS-3301@#	EMRAD – Show warning when PACS not connected
Description	eRC – eRadCockpit – GE web-based reporting platform and UV – Universal Viewer for Centricity PACS When vetting users in EMRAD try to launch a PACS image, without first closing existing UVs in eRC (by clicking the 'Cris Vetting' button), or if there are no images associated with the accession number,

	users would like to see a suitable warning message advising that the PACS is not connected or no accession exists within PACS, so they can quickly identify and resolve the issue. This should only apply in EMRAD and should not apply to other GE PACS customers.
Resolution	Created a new XR setting - REPORT.PACSWORKSTATION.EMRAD_GE.WarningMessageEnable - which, when set, will display a warning message.
Fixed in	2.12.00

Auditing

CRIS-1858@	NHS number 'alert' on CRIS if an NHS number already exists in CRIS
Description	As a System admin I want to use view log to identify any NHS numbers that have been updated with either 1) A different NHS number but with the same DOB and hospital number or b) A different DOB but same NHS numbers. I want to identify whether this was by the system (EJBserver) or by a user who has linked two patient records with different NHS numbers and be able to review / verify the information in other 3rd Party systems to identify the correct NHS number for the patient.
Resolution	When a patient demographics arrive from PAS/OCS, if there is an NHS number that is known to the system and then an incoming message changes the NHS number for a patient, it is now noted in the log, under WARN > Interface > PAS > NHS Number Change with all the relevant details pertaining to the change. If PAS/OCS sends the same NHS number and the patient is validated by patient number, but the patient details such as DOB are different this information will be logged under WARN > Interface > PAS > NHS Number matched as there is now a possibility that there are 2 patients with the same NHS number within the PAS.
Fixed in	2.11.00

CRIS-4202@	Status message for printing letters and reports
Description	When blanking/removing a clinician from the 'Intended Clinician' field, the action is not logged within the view log, meaning the user cannot audit to see who removed the clinician code. Ideally, the field should track all changes within view log to provide a full audit.
Resolution	The removal of the intended clinician from an event is now recorded in the logs. A new log type of REPORTUNASSIGN has been created to capture this occurrence. This new log type must be inserted into the CRISLGTP normal table.
Fixed in	2.12.00

Document Control

Title	Overview of Key CRIS Changes 2.09.10t1g to 2.12.10		
Owner	Wellbeing Training Manager	Date Created	07/11/2022
File Ref.	CRIS_UG_Familiarisation_All_Changes_2.09.10t1g - 2.12.10_WS_V1.0.docx		
CRIS Version	2.12.10		
Change History			
Issue	Date	Author / Editor	Details of Change
D1.0	07/11/2022	Darren Piercy	Draft issue – 2.09.10t1g – 2.12.10
D1.1	01/12/2022	Emma Savage-Mady	Draft review / comments
V1.0	02/12/2022	Emma Savage-Mady	First Issue
Review Date		02/12/2024	