



core CRIS

Release 2.14.00

Release Notes (External)



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1 Introduction

1.1 Purpose

This document will outline the functional changes made to this release. It will detail any new features, enhancements to existing functionality and list changes made due to existing functionality not working as expected.

1.2 Audience

This document is primarily for internal stakeholders, so they have a clear understanding of what has changed within the application's functionality, installation procedures and dependencies compared to previous releases.

It is intended that some of the content of this document could be shared with external customers, but that most such communication would be through training materials and help files which are beyond the scope of this document.

1.3 Previous Release

The previous release of this product was as follows:

Version: 2.13.03
Date: 11/Apr/23



2 Functionality added in this release.

The following features and enhancements are included in this release:

2.1 Ensure Email address is validated.

Jira Reference: [CRIS-4877](#)

As a user I am prevented from entering an invalid email address so I can ensure the quality of data in the system

Resolution

The validation on the patient email field has been increased from 40 to 254.

Now when the email address fails validation, only one warning message is presented.

After the DB update it is now possible to enter up to 254 characters into the referrer email field in the table setup for referrers.



2.2 Diary Breach Date warning should ignore Planned events.

Jira Reference: [CRIS-6000](#)

Planned events don't fall within the breach date guidelines. We should ignore such events when it comes to warning about date breaches.

Resolution

Breach date validation can now be controlled via a new XR setting - **'GENERAL.DisableBreachdateValidation'**. The default is 'NO' meaning validation IS enabled.

With the setting at its default, planned events are no longer validated, so the warning message will not appear, and the event will be appointed. Any other event type will be subject to breach date validation.

With the setting set to 'YES' (disabled), all events will be appointed irrespective whether their appointment date falls outside the breach date guidelines.



2.3 Modify Dragon Server to allow use of Open Dialog box.

Jira Reference: [CRIS-6049](#)

Currently we only show the Create/Import box when launching Dragon. This ticket is to modify the Dragon server to support both dialogs. The CRIS UI changes will fall under another ticket.

Resolution

A message type has been added to allow the open profile dialog in Dragon to be displayed.



2.4 Post Processing - Add Time of Injection and Time Checked

Jira Reference: [CRIS-6223](#)

DevOps Reference DOP-141

When I enter post-processing details, I want to record the Time of Injection when contrast is used so that I can meet the regulations.

These should be added to the Stock section.

Resolution

GUI and database changes made to implement this feature.



2.5 Create a Status History entry when Urgency is changed.

Jira Reference: [CRIS-6231](#)

As a user, when the booking urgency of an event is changed, I want to see a new status entry created so that I can easily audit urgency changes for the event.

Resolution:

Extra entries added into status table to handle "event-urgency-change" and "report-urgency-change". However, only event urgency change is added to the status entry.

The status table in the EventDetails panel now gets extra entries showing an EventUrgency changed entry when we change the event urgency.

The hover help message details what the urgency levels have change from and to.

i.e., Event urgency changed to 9, was 6.

It also shows who made the change.



2.6 Core CRIS Scribetech Augnito implementation - phase 3 - Dynamic Commands

Jira Reference: [CRIS-6252](#)
To implement Dynamic Commands

Resolution

Dynamic commands for Augnito Scribetech have been implemented.



2.7 Core CRIS Scribetech Augnito implementation - phase 2 - Commands

Jira Reference: [CRIS-6259](#)

We need to implement the Dragon Commands that users will be used to when reporting in Core CRIS. The reporting team has made a list of the commands that they have implemented here - <http://confluence.hssnet.com/display/CC/Augnito+commands>

For this ticket I'm happy just to implement those commands that have a direct impact in the report editor i.e., not those that cause navigation such as 'Next Exam', 'Verify Report' etc.

Resolution

Static commands and internal macros defined.



2.8 Core CRIS Scribotech Augnito implementation - phase 4 - Templates

Jira Reference: [CRIS-6260](#)

Dragon currently allows users to define templates so that pre-defined text can easily be inserted into the CRIS reports and populated by navigating through the tagged fields. We need mirror this behaviour for Augnito.

We will access the template editor via a new CRIS menu.

Resolution

A dialog has been added to allow basic templates to be created by a user.

The following commands have been added to navigate between fields '['

first field

last field

next field

previous field



2.9 Test CRIS works with new ODS codes.

Jira Reference: [CRIS-6308](#)

There is a new format for ODS codes:

A unified identifier structure of 5 alternating alphabetic and numeric characters (ANANA), with no inherent meaning.

Dental Data

ODS will be introducing a new 7-character code for all new Dental practices from February 2021. Most practices that are already coded as 6 character in our data will remain the same and won't be changed. However, a small number of practices will need to migrate over to the new 7-character code. Going forward the dental data will contain a mixed economy of 6 characters codes for existing organisation and 7 characters for new organisations. A test file containing the new Dental practice codes is now available from the Data Downloads web page. Please note, this is a forward view that should be used for testing purposes only. ODS does not recommend that this is used in any live systems/processing. We plan to introduce the new 7-character code into our Egdprac file in February 2021.

Resolution:

The new ANANA codes and the ODS codes appear to be working properly.

Setting the 'LOCATION.Hospital' XR setting to 'D3E4F' set this hospital to be the default location when logging into CRIS.

Normal workflows, creating a patient, creating a new event for that patient, attending the event, etc, worked as expected.

Sending an external order to this patient worked as expected, so interfaces were recognising the new referral source codes.

Appointments were successfully added to the diary.

All referral source/sites specific setup tables referenced the new site codes without error.

Creating events where the referral source is a dental practice also worked as expected. Unlinked dentist could be linked to the dental practice.

Unlinked referrers could be linked to the new sites/referral sources.



2.10 Worklists in CRIS should allow sorting by Vetting Priority

Jira Reference: [CRIS-6339](#)

As a User when I view a CRIS worklist I want to be able to order and filter by 'Vetting Priority' so that I can prioritise follow on activities according to the new NHS Waiting List guidance and not the original booking urgency.

Resolution:

The 'VettingPriority' is now available on ALL EVENT type lists.

It can be ordered/sorted correctly with D1 being the 'highest' priority value.

Only on the Vetting List is there a 'Vetting Priority' filter. This can be used to filter the events accordingly and is saved as a user preference if used.

The 'CRISVPRI' normal table has been created to hold these values. Each value has its own colour and is mapped to the 'Report Urgency' values in the same way as the 'Event Urgency' is.



2.11 Adding 'Vetting Priority' sorting/colouring to the Report Info Lists

Jira Reference: [CRIS-6347](#)

Provide the functionality to display/sort the Vetting Priority values on the Report Info Lists.

Resolution:

The 'Option...' dialog now allows the user to 'Order By Vetting Priority' and/or 'Colour By Vetting Priority' in the same way as the event urgency is used.

The 'Options...' button has a 'hover-help' this displays what options are available and what was saved as a preference previously.



2.12 Expand the size of the Group Name field via Security Settings

Jira Reference: [CRIS-6358](#)

Expand the size of the Group Name field via Security Settings in conjunction with exam validation for CORE and EVO products.

Resolution:

The allowed length for security group name has been increased from 11 to 20 characters.



2.13 Auto-purge Java Console text window.

Jira Reference: [CRIS-6403](#)

If the Java Console is kept open it will eventually take up all the available memory with text and cause out-of-memory errors.

I intend to add in an auto-purge to this, so that normally it will never allow more than 20Mb of text to be held. A checkbox will allow one to turn off this for special test cases.

Normally auto-purge will be on.

Resolution:

Added checkbox to Java Console on the hidden popup menu.

This is normally ticked to purge if the document size > 20Mb.

It drops anything above 20Mb that is oldest.

If you untick the auto-purge checkbox it will eventually take up all memory and crash. (Does take a while though).



2.14 Augnito - Capitalisation of initial word

Jira Reference: [CRIS-6406](#)

As a VR user, when I dictate, I want the first word of each paragraph/sentence to be capitalised so that my reports are syntactically correct.

Currently there is a space and lower-case letter at the start of the first paragraph.

Resolution:

Text has been corrected so that reports do not start with a space and sentences start with a capital letter.



2.15 Augnito - Provide user feedback on spoken input.

Jira Reference: [CRIS-6418](#)

As a VR user, when I am dictating text on the reporting screen, I want to see the text I say displayed immediately, before processing by Augnito, so that I can receive instant feedback on what I am saying. Once Augnito has processed the speech and populated the report editor, the feedback panel should be cleared.

Resolution:

A dialog has been added to show partial recognition messages as a user dictates.



2.16 "Attended" column in EventList not picking up background Colour.

Jira Reference: [CRIS-6429](#)

Stays white even when other columns are coloured on the same row.

Resolution:

Background colour now implemented in EventList.



2.17 Report Info List 'Options' button needs to be slightly taller.

Jira Reference: [CRIS-6430](#)

There are set of indicator markers on the button, and with the extra options for VettingPriority, they do not all show on the button.

Resolution:

Adjusted button height and position to display all the button elements and align better in the window.



2.18 Vetting Priority - Mapping XR setting.

Jira Reference: [CRIS-6431](#)

To create an XR setting to allow the various Urgency mappings to be configured as per the following:
If configured when an Event Urgency (CRISURG) comes in as 1 - it would check the mapping in CRISURG and populate Vetting Priority as configured.

If the Vetting Urgency is subsequently changed it should not update the original Event Urgency as the Vetting Priority is now the master urgency, with the Event urgency as a reference to the original order - I did also suggest we need an XR Setting to configure which Urgency is considered the master by the customer - i.e. **Request** Urgency or **Vetting** Priority.

If the customer wants to deploy Vetting Priority it is this which populates the Report urgency via mapping in CRISVETPRI, **BUT** if Vetting Priority is not deployed customers could continue to use the existing Event Urgency with the existing Report Priority mapping.

In configuration terms this means if Vetting Priority is in use, Report Urgency should be left blank in the (CRISURG) Request Urgency configuration and only populated in the (CRISVETPRI) Vetting Priority table.

The final option would be that customer could choose NOT to configure any mapping for Vetting or Report and force Radiologists and Radiographers to manually enter this if preferred.

Resolution:

The default behaviour, a new order being opened, or a new event be created, will ensure that the 'Event Urgency' and the 'Vetting Priority' values are set to their mapping values. Once the event has been saved however, these values work independently of each other.

The 'Report Urgency' value will be dependent on a new XR setting.

'GENERAL.UseVettingPriorityMapping' when set to 'Yes' will set the 'Report Urgency' to the mapping in the CRISVPRI normal table. If this XR setting is not set, i.e., set to 'No' or blank, the 'Report Urgency' to the mapping in the CRISURG normal table.



2.19 Augnito - Allow user to select input device.

Jira Reference: [CRIS-6438](#)

As a VR user I want to select the input device that is used for VR so that I can use the best device for the task.

Should be accessed via the new Augnito VR menu.

Resolution:

A menu item has been added to the Scribetech menu that allows the user to select a microphone source device.



2.20 Augnito - XR Setting to store Augnito URL

Jira Reference: [CRIS-6439](#)

Store the URL as an XR setting so we don't need to rebuild if they decide to change it

Resolution:

Three XR settings have been added.

VOICE.AugnitoStreamingURL

VOICE.AugnitoAccessKey

VOICE.AugnitoAccountCode

These need to be set before Scribetech VR can be used.



2.21 Augnito - Speechmike buttons don't start/stop recording.

Jira Reference: [CRIS-6467](#)

Need to implement speechmike start/stop recording functionality.

Resolution:

The SpeechMike record button now toggles recording on and off in Scribetech VR.



2.22 Augnito - Allow + key to enable/disable microphone.

Jira Reference: [CRIS-6480](#)

As a VR user I want to enable and disable the microphone using the + key on the numeric keypad so that I have a convenient way to control recording, without using the mouse, when using a headset.

Resolution:

The microphone can now be toggled on and off using the number pad + key.



2.23 Add Vetting Priority field to Event Info page.

Jira Reference: [CRIS-6532](#)

As a user I want to see the vetting priority next to the urgency on the Event Info tab so that I can quickly compare, and modify if required, the two values.

Resolution:

A 'Vetting Priority' field has been added to the 'Event Info' page.

The value will be drawn from the event details initially but may be changed within the 'Event Info' page.

The '**GENERAL.UseVettingPriorityReportMappings**' XR has been renamed to '**GENERAL.UseVettingPriority**' because it will be used in a more generic manor going forward, not just for report urgency.



2.24 Augnito - allow selection of unrecognised words.

Jira Reference: [CRIS-6541](#)

As a VR user when Augnito returns a word it does not recognise (with squiggles) then I am able to select the word using my voice so that I can easily replace the word

Resolution:

A command has been added to allow voice selection of unrecognised text. The voice command 'select unrecognised word' will select the previous occurrence of '___' in the report.



2.25 Add age column to Worklists.

Jira Reference: [CRIS-6575](#)

As a user I want to be able to add an age column to my worklists and use the standard column ordering/filtering so that I can easily build lists for my paediatric patients.

Resolution:

Added columns "PatientAge" and "AgeOnAttend" to optional ColumnsConfig set.

Special cases.

If DOB is null, then always display fields as "?".

If DOD is Not null, and date of calculation (i.e., today for Age and attendedDate for that "AgeOnAttend" is displayed differently. If Patient is dead before calculation date, we display Dead (age on death) otherwise we display age on date of calculation.

Display is shown using NHS age rules.

Filtering filters as a string at the moment i.e. you can do filter contains "84y" or for less than 1year old - filter does not contain "y"

Ordering works with the following specialties.

if a patient is dead, they are ordered as age of 0, so they might be picked up sooner, and any consumed events cleared out.

Patients with no D.O.B will order as age of 0. (But treated as lower than dead).



2.26 XR Settings - Auto cleanse of assets.

Jira Reference: [CRIS-6579](#)

An asset listing in the XR settings will sit there long after the asset itself has been decommissioned, especially if local IM&T do not inform us of the asset disposal. Some of these assets will be using CRIS licences such as DTI or scanner licences. There should be an option to set the list to cleanse assets if CRIS has not been logged into on that device in a locally configurable timescale e.g., asset not logged into CRIS in 6 months.

We will provide, as part of the Settings area, a tool that allows the user to display all terminals that have not been logged in to for the previous x months.

The user will then be able to select, via a multi select check list, all terminals that they wish to delete.

They will be able to select/deselect all check boxes.

Once selected, clicking delete will delete those terminals freeing up any associated licences.

Resolution:

There is now the functionality to check which terminals have not logged in for a period. This time is defaulted to 6-months but can be set manually if needed.

The functionality is behind the **GENERAL.DELETETERMINALS** security setting, which has been added to the **SUPERU** activity within the **SYSADMIN** role.

The terminals are just deleted from the 'formats' database table, so they won't appear in the XR settings setup table in CRIS. To reinstate the terminal, the user just relaunches CRIS on their terminal.



2.27 Augnito Tidy Up

Jira Reference: [CRIS-6582](#)
noise cancelling
language model
log back in
licence
check scratch that.
partial window parent to CRIS window

Resolution:

A noise cancelling menu has been added for the user to control the level of noise cancelling applied.
A language model menu has been added for the user to select a language model to be used.
Logging back in after logging out has been checked and corrected.
A licence for Scribotech usage has been added.
The partial window has now been linked to CRIS and is no longer on top of all windows.



2.28 Porter list to auto refresh

Jira Reference: [CRIS-6596](#)

It would be helpful if the porter list auto refreshed. Currently we have to press "List" to get an up-to-date view.

We applied a very similar change to the Orders list whereby a user could configure a refresh interval and the list would reload after that duration. If no interval was set, the list did not auto refresh.

Resolution:

Refresh timer attached to the Refresh Button in the PortersList.

Right click on the 'Refresh' button in the PortersList to see the timer dialog.

Right click on the PortersList to popup a dialog. If you enter an integer > 30, then click Ok, this will invoke the auto-refresh code. The list will refresh every 'n' second where n is the number you typed into the dialog.



2.29 Investigate best location to warn for order validation failure.

Jira Reference: [CRIS-6597](#)

[CRIS-1947](#) covers applying the same validation to electronic orders that is applied to manually created orders e.g., 2 of the same exam within x days.

We need to decide where is best to display any validation warnings when processing the order.

Resolution:

Look like it is feasible to trap these exam validations as the order is loaded into the 'Event Details' page and display any appropriate validation message.



2.30 Augnito - prevent templates with the same name from being created.

Jira Reference: [CRIS-6604](#)

A user tried to create a template with a duplicate template name. It seemed to allow this but, when reloading the templates only the original template was shown.

We should prevent the user from using a name that already exists in the template list.

Resolution:

Template names with any upper-case characters would not have been matched.

It is now possible to use upper case characters in template names and existing templates with the same name will not be allowed.



2.31 Filtering mechanism in 'Examination Validation' setup table

Jira Reference: [CRIS-6612](#)

Currently, there is no way to find the examination code you want to add a validation method to. You must scroll down the whole list until you find the one you want.

Resolution:

Controls have been added to allow the user to choose and/or search for a particular exam code more easily. You can search by modality then filter the modality exam codes presented or filter by any code directly.



2.32 Augnito - Template fields should select and replace brackets.

Jira Reference: [CRIS-6620](#)

When using any of the template field selection commands the brackets should be selected and replaced by the spoken text. Currently the brackets remain visible.

Resolution:

When using the commands 'next field' and 'previous field' the whole field will be selected including the field brackets.



2.33 Display Events on the Unreported List based on an AI modified Priority.

Jira Reference: [CRIS-6687](#)

DevOps Reference: [DOP-334](#)

As a sys admin I can elect to sort the reporting radiologist list either by urgency or by urgency as the primary sort and the AI priority as a secondary sort so the radiologist reports without knowing that a different sort has been made.

Rationale:

Customer wants to blind test the impact of using AI prioritization.

Dev Notes:

- *Only Plain film Chest X-rays for over 16s will be modified.
- *The AI will tag the event with one of two outcomes - Abnormal or Normal.
- * We MUST NOT display the AI generated value anywhere in CRIS.

Resolution:

GUI and database changes have been made to implement this feature.

A new user preference is available. If this is set to a string and has a value that starts with 'Y' or 'T', i.e. Yes, True then this is enabled and the sort options on the unreported list is ignored.

Also, if any column has a column filter turned on by clicking on the column heading, this will OVER_RIDE this option.

But clicking on a column heading will not.



2.34 Fix Report Info List fields being clipped in portrait mode.

Jira Reference: [CRIS-6692](#)

Customer is using this outside of supported resolution so if a big change is required we will push back.
Can we show more of the clipped fields without any major layout changes?

Resolution:

ReportInfoList unreported tab adjusted to fit in a width of 1080 pixels.



2.35 Prevent Unicode characters being saved in Event Comments

Cloned from: [CRIS-6678](#)

Jira Reference: [CRIS-6715](#)

A customer has raised the issue that emojis pasted into the event comments cause issues.

We should prevent Unicode characters being saved in the event comments.

Resolution:

Unicode characters in the event comment field are now filtered and replaced with HTML encoded characters.



2.36 ReportInfoList: - Implement Performance Enhancements

Jira Reference: [CRIS-6729](#)

[CRIS-6668](#) looked at possible performance enhancements following issues at SAS. This ticket is to implement the changes investigated as part of that investigation.

Resolution:

Took help from database team and adjusted query for unreported tab.

Also added 4 XR settings to affect the 'date Block Size' so we can adjust the max/min and seed data block sizes when pulling records.

I would recommend the following values.

ReportInfoListMaxBlockSize (default=96).

ReportInfoListMinBlockSize (default=3) // used when memory full

ReportInfoListSeedBlockSize (default=28) // starting point

The currentblocksize will self-adjust between the max block size, and minBlockSize.

Another XR setting has been added **ReportInfoListUnreportedListFilter** (default set to 'Yes').

This should greatly improve the performance issues. Especially if the installers can play with the DateBlock settings.

When installing on site, the installer should tune the 3 XR settings... ReportInfoListMaxBlockSize, ReportInfoListMinBlockSize, ReportInfoListSeedBlockSize parameters in XR settings, and to turn on/off the ReportInfoListUnreportedListFilter Yes/No setting.

Start first with setting the ReportInfoListUnreportedListFilter to Yes. This should greatly reduce the number of records pulled from the database but takes slightly longer to process the query. This does though reduce the number of records to be pulled and processed by CRIS, so should reduce the overall time.

MinBlockSize should be adjusted to save the program from running out of memory when pulling lots of data at once. i.e., lower the minimum block of data you can retrieve. This does however, mean more pulls to get the data.

MaxBlockSize is the largest data range we will pull at once. This set to 365. i.e., 1 year at once.

The SeedBlockSize is where we start, try 200. Once set the program increments or decrements based on the number of records pulled per access.



2.37 Augnito - Centralised management of commands

Jira Reference: [CRIS-6821](#)

As a Radiology Department administrator I want to create Augnito templates that can be assigned to groups of Augnito users so that we can have a consistent set of templates and users won't need to set them up individually.

Resolution:

Two new sections have been added to the CRIS setup screens (other/general) AugnitoSetup and AugnitoMacros. These allow an administrator to set up general macros for groups of users and create new Augnito logins for users.



2.38 Use avdatacount from the quickeventsummary function for the Painter class.

Jira Reference: [CRIS-6852](#)

Need to reduce the number of calls to the database when rendering the 'eventlist' panels.

Resolution:

The code now gets the avDocumentCount from the quickeventsummary or eventsummary functions, rather than calling a separate database call for this information.



2.39 Augnito - allow the display of the processing box to be configurable.

Jira Reference: [CRIS-6854](#)

Various users found the continually presentation of the 'preview box' distracting and would like the ability to turn it off.

Resolution:

A new menu item has been added to the Scribotech menu that allows the preview dialog to be turned on or off. The menu item is "Preview Dialog".



2.40 Capitalisation of the first letter of the first word at beginning of a sentence is missing.

Jira Reference: [CRIS-6896](#)

The capitalisation of the first letter in the first word of each paragraph is inconsistent, it's there sometimes but missing on others.

Resolution:

This issue cannot be replicated locally. This issue appears to be solved by other fixes.



2.41 CRIS/VR freezing after period of use or extended gap in use.

Jira Reference: [CRIS-6901](#)

Underlying issue was that if the user reported using VR for a continued length of time OR the application is inactive for a prolonged period, CRIS freezes.

Reporting as normal VR and CRIS freeze and stops responding. Unable to close windows or control CRIS in any way. Used 'Alt+F4' which closed the Augnito processing box. The remainder of the spoken report up to that point was then immediately inserted into the report window. VR and CRIS then began responding again however the Augnito processing window would no longer show.

Resumed as normal after saving the report and restarting CRIS.

Resolution:

This issue cannot be replicated locally. This issue appears to be solved by other fixes.



2.42 Microphone requires reset when left unattended for a period.

Jira Reference: [CRIS-6904](#)

User leaves workstation for a period without logging out of CRIS. When returning, CRIS won't restart with total shutdown.

Resolution:

This issue cannot be replicated locally. This issue appears to be solved by other fixes.



2.43 Null pointer exception when workstation left idle.

Jira Reference: [CRIS-6907](#)

Very similar to CRIS-6904 above

Resolution:

This issue cannot currently be repeated locally.



2.44 Adding a word mid report adds an additional space.

Jira Reference: [CRIS-6913](#)

Text returned from Scribotech always adds a space at a start. So, if cursor moved to adjacent to an existing space this will occur. Cursor should be placed before space.

Resolution:

When inserting text into the middle of a report a space is no longer placed where one already exists and is placed where one does not already exist.



2.45 Using the new line command adds a space at the beginning of the new line.

Jira Reference: [CRIS-6916](#)

When the 'new line' command is voiced, the cursor moves to a new line as expected but a space is inserted at the beginning of this new line.

Resolution:

A space is no longer added to a line directly after a new line, the first letter is not capitalised if no full stop ends the previous line.



2.46 A push to talk option for activating VR rather than a simple mic on/off.

Jira Reference: [CRIS-6931](#)

Add the 'push to talk' option.

Resolution:

A new menu item has been added to the Scribetech menu to allow the user to select the Speechmike record button functionality. It allows toggle mic and push to record.



2.47 Recognise and remember a default input source.

Jira Reference: [CRIS-6934](#)

For Augnito/CRIS to be able to recognise and remember a default input source selection per user. Currently it just picks up the windows default mic selection on launch and you have to then pick from the Scribotech drop down a specific device each time if it differs from the default.

Resolution:

The chosen source for Augnito Scribotech is now remembered and set on login if available.



2.48 Is it possible to lock the Sample rate options?

Jira Reference: [CRIS-6937](#)

Can we persist the chosen sample rate between sessions?

Resolution:

The selected sample rate for Scribotech is now persisted between sessions.



2.49 Port / test log4J work into 2.14.

Jira Reference: [CRIS-7032](#)

Gary has completed the Log4J work and has ported it across into version 2.14

Resolution:

The log4j2 libraries have now been implemented in the 2.14.00 codebase.

The following libraries will be included as part of the deployment package and references to these libraries must be included within the 'cris.jnlp' file.

They will also need to be included in the 'jboss/server/default/lib/' directory on the jboss server.

log4j-api-2.17.1.jar
log4j-core-2.17.1.jar

The log appenders, log layout and format can now be found in the 'logger.xml' file. This will need to be included in the C:/cris3/HSSLauncher' directory. This will control the appearance of the logging detail in the Java console and will create a 'logs/cris.log' file under the HSSLauncher directory. This file will automatically be created for each day and the previous days logs will be save as a 'cris.log.<yyyy>-<mm>-<dd>' file. This file will rollover for 7 days then a fresh file will be created, and all previous week's logs will be lost.

The interfaces (server.log) will not use the log4j2 mechanism. Instead, they will use the native jboss logging mechanism, so should appear as they have always done, so no changes will be seen here. However, these logs will need to be tested just to see if the logging is still as expected, especially around incoming/outgoing HL7 messages.



2.50 Update CRIS to use the new Augnito URL's and Speech models.

Jira Reference: [CRIS-7052](#)

As a user I can see the changes necessary to enable Core CRIS to work with the new URL's and Speech models Augnito have implemented are in place so Augnito works as expected.

Resolution:

The URLs for the speech API and manage functions of Scribotech can both be defined in XR settings.

Depending on which version of the URLs are used the user can select from either v1 language models or v2 speech models from the Scribotech menu in the main CRIS menu bar.



2.51 Create ability to reject invalid characters from report editor.

Jira Reference: [CRIS-7122](#)

As a user at Princess Alexandra when I cut and paste from word into the editor I do not see any unsupported characters inserted into the report editor (it is believed emojis are causing this) so the report looks more professional

Is there a way we can validate the text input and warn for any invalid characters?

Resolution:

Unicode characters are now filtered and replaced where appropriate in the report editor.



2.52 Update dataflds for events.copy_to to from lookupname SOURCES to REFERRER

Jira Reference: [CRIS-7308](#)

DevOps Reference: [DOP-286](#)

The events.copy_to column in stats is set to lookup as a referral source rather than a referrer. This needs to be changed to referrer so that it works properly in stats.

This only requires a database change, not an app change. Just creating a CRIS issue to get it included in patch notes.



2.53 'postgresql-42.3.3' driver update failing.

Jira Reference: [CRIS-7356](#)

DevOps Reference: [DOP-309](#)

When upgrading the 'PostgreSQL' driver from 42.2.2 to 42.3.3, I receive the following error when trying to build my project.

"SEVERE: Server name validation failed: certificate for hostname systest3DB.wsg.local has no DNS subjectAltNames, and its CommonName is missing as well".

I've been informed that this is not a database issue, so that's why I'm linking this issue to a DevOps ticket.

Resolution:

The updated driver can now be used.



2.54 Regression test and documentation update for Augnito v 2.12.08

Jira Reference: [CRIS-7423](#)

We have had negative feedback about Augnito due to an older version of Augnito being released. We need a number of things to happen.

- # Regression test Augnito and document to clearly and honestly state what does and doesn't work
- # Check and document any new config that users and config need for a successful implementation
- # Update the crib sheet and documentation originally written so it now accurately reflects the latest release
- # Ensure release notes have the changes from 2.12.06 clearly documented.



2.55 Port changes made to 2.12.08, 2.12.09 and 2.12.10 to 2.14.00

Jira Reference: [CRIS-7456](#)

Ensure all changes made to the 2.12.08, 2.12.09 and 2.12.10 patches are ported across to 2.14.00.

Resolution:

Code changes made in the 2.12.08/09/10 have now been ported across to the 2.14.00 codebase.



2.56 Augnito - improvements to dictation pop-up box

Jira Reference: [CRIS-7589](#)

The users are seeing a delay of between 4-7 seconds of the VR transcribing whilst the dictation pop-up box is selected and visible with from 12- 26 seconds delay between dictation and transcribing with the Scribetech Preview Dialogue deselected.

We are told that this issue does not occur if the dialogue box is switched off.

It also pops-up in an obtrusive position covering areas of the screen that make it difficult for the user.

Resolution:

The partial result dialog has been replaced with a small text overlay that is less intrusive and does not interfere with the general user interface.

Null pointer exception is no longer displayed when inserting all titles in new report.

In certain circumstances, the 'pop-up preview' box remains displayed on the screen, especially if two commands are issued one after the other.

The editor is now updated between commands and the pop-up preview disappears as expected.



2.57 Warning following an unexpected (abnormal/premature) web socket closure during an Augnito VR report.

Jira Reference: [CRIS-7679](#)

As a user dictating a report with Augnito that has received an unexpected web-socket closure, either due to a network error or turning off the microphone prematurely, I can see a warning indicating that there has been an unexpected error during my report and I can see the area of the report that I need to check so I can rectify any errors or omissions before I save/verify the report.

Resolution:

When a connection to the Augnito server is lost then dictated text is lost. It is now marked with the last text recognised on a red background. If this happens then a user will not be allowed to save the report until they use the right-click menu to clear the bad text.

If the users turn off the microphone before an answer has been received from the Augnito server, then this will be marked with text on a green background. This can also be cleared from the right-click menu to clear the incomplete text.

Spoken commands are no longer recognised as incomplete text.

The "save report" spoken command now checks for inconsistent text from events where the microphone was closed before the final text was received.

Using the voice command "verify report" will no longer ignore highlighted partial text.



2.58 Augnito VR microphone improvements

Jira Reference: [CRIS-7709](#)

Improvements to microphone connectivity when using Augnito voice recognition.

Resolution:

After reviewing the logs and code from 2.12.12 release testing, we have identified some possible mitigations and improvements.

- 1) It may be possible in some situations to fail to close the line obtained from the sound mixer for the microphone. If this is not closed, then it may lead to the problem of failing to get a line that was previously available. The application now forces the previously open line to be closed when a new line is obtained. This should ensure that a line is always available.
- 2) Reduction to the buffer size that sends data to Augnito. This should decrease the time required to send data and increase responsiveness.
- 3) Improved the detection of microphone devices so that the user should no longer be offered devices that are not microphones (e.g., some monitors).
- 4) Added an error dialog so that the user is warned if the microphone device is unavailable.



2.59 Implement suggested method for MSVCR110.dll from CRIS-7710

Jira Reference: [CRIS-7713](#)

Jira Reference (spike): [CRIS-7710](#)

The suggested method from 4 options is to include this DLL in the launcher.

Resolution:

From now on, this file will be included within the deployment package as part of the 'crisgui' directory. It will also be reference within the 'cris.jnlp'. It will be archived and named 'msvcr100dll.jar' and referenced as a 'nativelib' resource within the 'cris.jnlp'.

If this is ever needed retrospectively, it will be built locally and the file and the 'cris.jnlp' reference entry will be passed onto support for installation.



2.60 Publish the data that CRIS can send from the portering module.

Jira Reference: [CRIS-7756](#)

Research and publish the data, and the varying workflow statuses of that data, that CRIS can send from the portering module. Send findings to Chris Burdett

Resolution:

Document produced and sent to customer.



2.61 SPIKE: What Ascii characters can we display send and receive

Jira Reference: [CRIS-7775](#)

How do we manage cm2 cm3 as:

- * Can we display it
- * Can we receive and display it
- * Can we send it

Resolution:

HL7 does not support any kind of 'superscript' characters now, so m² will not be supported. However, it does support the transmission of 'units' but they have to be of a particular format.

So, the equivalent to the superscript character m² would be m2. HL7 has a comprehensive specification around the transmissions of units. The OBX:6 field is where the unit character will go.

Currently, CRIS interfaces only process TX-type OBX segments in either direction, so processing units inbound to CRIS and outbound from CRIS will need extra work.

Copying text containing superscript characters from another editor into the CRIS report editor results in the following

The area of my bedroom is 41m² becomes.

The area of my bedroom is 41m2 and is passed out of CRIS as it is.

So, any third-party wanting to send us superscript characters are going to have to translate their text prior to sending to fall in line with HL7 expectations. If they do that, CRIS will then need modifying to handle this formatting and storing appropriately to display in the report editor. Further processing will be needed to re-convert this data back into a suitable format to be passed downstream.



2.62 Ability to see that MedCurrent CDS has been used in the creation of the order.

Jira Reference

CRIS-7452

This can only happen if the CDS process exists on the site. So, we perhaps need a way of switching it on and off.

If an order has been through the CDS process, we can.

sort the vetting list to show these first

Filter the list to only show these

Filter the list to show only those that have not

Clearly see when vetting an order that it has been through the process by displaying something of your choice in the UI. That indicates CDS has or has not been used.

Whether CDS has been used or not should not stop a user vetting the exam

It should be clear in the vetting page that the event has been through the CDS process.

With multiple exams only the exams that have been through the CDS process will indicate that on the vetting screen

Resolution

Both the 'Orders' list and the 'Vetting' list will now filter on the state of the 'CDS_Processed' flag irrespective of the status of the event.

The 'CDS processing' is enabled/disabled by anew XR setting - '**VETTING.processCDS**'. The default is 'N', disabled, so the user has to enable it deliberately.



3 Fixes to existing functionality in this release

The following fixes are included in this release:

3.1 Missing Current Status for Additional Exams.

OTRS Reference: [00110428](#)
Cloned from: [CR-2123](#)
Jira Reference: [CRIS-3784](#)
Affected version: 2.09.10t1g1, 2.11.00.

As a radiographer entering a report, when I navigate to the Event Details tab to add an additional exam(s) I want the status of the new exam(s) to be set to match the other exams for the event.

So that Stats and Unreported counts are correct.

A fix is required for future CRIS releases because using a particular workflow, you are able to add an additional exam to an event while reporting but upon saving the report, CRIS doesn't insert a current status =Y (attend) for the newly added exam as it should.

All attended exams should have an adjacent attend status with a current value of = 'Y' on the event. CRIS should be changed so under all circumstances, when adding an additional exam, the relevant status for the event is applied to the new exam key within the status table. i.e. if the event is waiting, the new exam would have a waiting current status = 'Y', attend would have attend current status = 'Y' etc.

It is appreciated that this is bad workflow however CRIS still lets you add an additional exam at the reporting stage by following the replication steps, so really at the very least, it shouldn't let you do this.

Users at the trusts will continue to work this way if the system allows it.

To summarise the requested fix,

- Stop the users from adding exams and returning to another CRIS tab without saving.
- Ensure that whenever an additional exam is added in CRIS (at any point in the patient journey), the relevant event status is inserted for the new exam key with a current status = 'Y', this will match each of the other exams for the event.

Resolution:

When switching between the event details and report tab and changing the exams in an event, the user will now be forced to save the exams before then reporting.



3.2 Orders no longer displayed in 2.12.01 due to urgency.

OTRS Reference: [00156893](#)
Cloned from: [CR-2373](#)
Jira Reference: [CRIS-5249](#)
Affected version: 2.12.01.

A bug has been which has changed functionality for the CRIS 2.12.01 release, this bug therefore needs addressing in a future release.

Customers have been testing version 2.12.01 and reported that their OCS messages were not appearing within the TEST system. After lengthy investigation, they have discovered a bug which believe is probably related to the recent change to support 2-digit event urgency values.

Usually and ideally, most sites will send the required numerical event urgency value in the inbound HL7 order message (OBR 27.6), in these cases this bug does not present an issue.

Some trusts do however send a word in OBR 27.6 such as "Routine". The interfaces trim the value and store "R" as the urgency. Even though this is not a valid urgency number, the user would be able to see and open the order, thus allowing them to manually change the urgency to a valid CRIS value.

Sending a word is not technically supported, this did not present an issue on versions before 2.12.01 as the order is still displayed within CRIS.

The issue we now find post 2.12.01, is that the orders will no longer be displayed within CRIS (on the patient or orders list) if the order urgency contains a non-integer type value (i.e. a letter or letters). These orders cannot be found within in the application in anyway, you can only see them by querying the orders database table.

It is this functionality which should be restored so that even if the order urgency is not numeric, the order will continue to show on the orders/patient list in CRIS, as it does pre 2.12.01.

Resolution:

With incoming urgency values of 'Null', "", or non-digit, the urgency value isn't validated and allowed to move through without error, However, the application defaults the value to 1 to avoid any further null pointer/number format exceptions.



3.3 Unable to clear Filter Profile

Jira Reference: [CRIS-5637](#)
Affected version: 2.12.01.

In 2.09.10.t1g (and earlier) if you pull up an orders list or similar and apply a filter profile it filters as expected. If you then pick "no profile selected" it returns to an unfiltered list.

In 2.12.01 if you apply a filter, it still filters as expected, however if you then pick "no profile selected" it does not remove the previously supplied filter. The only way to see the full list is to right-click on one of the columns and "remove all filters".

'No profile selected' should work as it did in 2.09.10.t1g.

Resolution:

Selecting the 'No profile selected' option will now remove all current profile filters and column configurations and reload the table with default column headers.



3.4 Lag when typing in CRIS reporting window after using microphone.

OTRS Reference: [00171761](#)
Cloned from: [CR-2506](#)
Jira Reference: [CRIS-5854](#)
Affected version: 2.11.04, 2.11.05.

Customers have reported they are seeing lag when typing in CRIS reporting window after using microphone with 2.11.04 and above.

Resolution:

Routines in Dragon and methods in the CRIS application both use the AWTEventQueue. Mostly, they access this thread in an asynchronous manner, but now and again, like in this scenario, they access the thread simultaneously, so one must wait for the other. This is why the lag is experienced.

So, the particular Dragon process in this scenario, DragonBufferUpdater, now has its own thread which won't conflict with the AWTEventThread.



3.5 Investigation required into why the microphone went to standby while reporting V15.

OTRS Reference: [00178399](#)
Cloned from: [CR-2573](#)
Jira Reference: [CRIS-6126](#)
Affected version: 2.11.06.

Customers have reported that when a radiologist is dictating a report, the microphone occasionally toggles itself to off. This can be a problem when looking at the PACS and dictating a long report as the user doesn't notice until the end and will have to redo the entire report.

An investigation is required into why the microphone went to standby while reporting V15, the doctor reported that the microphone went to standby on its own.

Resolution:

Unable to determine what exactly causes this but most likely reason be Dragon recognising 'some-other-expression' as Goto Sleep.

I have managed to get "Previous report" to be interpreted as "finish report" in which case the mic turns off, and the Finish page is loaded. There may be something else similar for "Goto sleep".

So, I have added 2 sounds that can be enabled while using Dragon. 1 for entering sleep mode, and one for turning microphone off. This may help to be prompted if Dragon recognises something you have said as "Goto Sleep".

This is turned on with XR setting.

VOICE_DRAGON_WARN_ON_MIC_OFF, "Dragon - warn user when microphone turns off|No"

which by default is off.



3.6 Changing child security setting also affects inherited group.

OTRS Reference: [0057877](#)
Cloned from: [CR-1446](#)
Jira Reference: [CRIS-6244](#)
Affected version: 2.09.10t1g1.

When altering security settings, it is possible to change the value of the inherited permission on the parent item even though the change has been made on the child item.

Setup an activity.

Setup a role using the activity.

Setup another role with the previously created role as parent

Restart CRIS.

Go back into CRIS and open the role with the parent role.

Change the order of the item column.

Select the item and change its value.

This should show a null pointer error.

Resolution:

A null pointer exception is no longer raised when altering the value of a setting in a role.



3.7 Stat Field - "STATS.Time Taken".

OTRS Reference: [0087665](#)
Cloned from: [CR-1940](#)
Jira Reference: [CRIS-6249](#)
DevOps Reference: [DOP-137](#)
Affected version: 2.09.10t1g1.

We have found that the STATS.Time Taken shows negative Numbers when the exam was done over midnight.

Start 2200

End 0030

This causes the time to show incorrectly.

Resolution:

Database fix only.



3.8 Clock reset date issue when there are multiple appointment status records without cancellation.

OTRS Reference: [00126650](#)
Cloned from: [CR-2230](#)
Jira Reference: [CRIS-6266](#)
DevOps Reference: [DOP-139](#)
Affected version: 2.10.11.

If you do a hospital cancel after an appointment has been booked multiple times the date from the earlier appointment is used as the clock reset date

Resolution:

Database fix only.



3.9 Porter list patients jump around when refreshing

OTRS Reference: [00185666](#)
Cloned from: [CR-2609](#)
Jira Reference: [CRIS-6293](#)
Affected version: 2.12.02.

A minor bug has been identified regarding the porter list within core CRIS. This appears to be present in all CRIS versions.

When refreshing the porter list, if you have the list sorted by a non-unique column i.e., priority, then each time you refresh the list, the items move around although they are still sorted by the column you selected so not a big deal but a bug non the less. By non-unique I mean that not every value is different for example patient name.

Priority is a good example to showcase this problem, as you only have three values typically (low, normal, high). Please see attached images. The rows are still sorted by priority but each time you refresh the list, the patients move around within their sorted groups.

Resolution:

The sort method groups the requests by status and stores them into 'HashSet' objects. This storage do not maintain their stored order, so refreshing the list could change the stored order.

So, this storage container has been replaced with a 'Linked-List', which does maintain the order in which they were stored.



3.10 2.12.01+ - Zooming on request card distorts image.

OTRS Reference: [00182055](#)
Cloned from: [CR-2590](#)
Jira Reference: [CRIS-6294](#)
Affected version: 2.12.01.

While testing version 2.12.03, a bug has been identified relating to the zoom in/out functionality when viewing a request card in core CRIS. Although this was found in 2.12.03, testing has found this to be an issue since 2.12.01.

If you view any stored request card and zoom in/out using the scroll wheel on your mouse, the image becomes distorted.

Eventually, if you keep zooming in/out multiple times, the application will produce a memory error. This does not seem to affect PDFs.

Resolution:

Implemented as part of the work on [CRIS-6503](#).



3.11 Suppress triggers for rejected exams.

OTRS Reference: [00183459](#)
Cloned from: [CR-2594](#)
Jira Reference: [CRIS-6306](#)
Affected version: 2.12.02.

A customer recently identified an issue whereby one exam on a multi exam request event was rejected using the status field (value = R), however the event was subsequently attended as the second exam was being performed. This process triggered an ATTEND trigger for both the rejected exam and the non-rejected exam.

When the exam is rejected, a CANCEL trigger is sent for the exam, which cancels the exam in third party systems, but because the ATTEND is triggered later on, the result is the reject exam appears on worklists etc.

Resolution:

When a 'rejected' exam is now 'attended', the 'ATTEND' trigger is suppressed and not sent downstream.



3.12 Creating new filter profile in 2.12

OTRS Reference: [00183228](#)
Cloned from: [CR-2592](#)
Jira Reference: [CRIS-6307](#)
Affected version: 2.12.03.

In version 2.12.03, when creating a new filter profile, you click the "new" button and fill out the required fields. Upon saving the new filter profile, the filter profile isn't added to the drop-down list of available profiles.

The profile has been created and does exist, you have to close down the list using the "done" button and then re-open the list, the new filter profile will then be available for selection.

Resolution:

Filter profile names are now added when they are created.



3.13 2.10+ report info list filter profiles don't save spaces on columns.

OTRS Reference: [00168698](#)

Cloned from: [CR-2471](#)

Jira Reference: [CRIS-6335](#)

Affected version: 2.10.15, 2.14.00

Customers have raised an issue where if the value they are filtering (column) on has spaces in, when they log out of CRIS and log back in, the spaces are removed, and the filter therefore no longer works. For example, they have the filter Refloc setup which is set to **is not** the following ward codes RA9-TB RHEU REC, RA9-TB BCU, RA9-TB PAED REC, which will work initially when they first add these values. But the moment they save the profile, exit CRIS or close report info list and open again, the values turn to RA9-TBRHEUREC, RA9-TBBCU, RA9-TBPAEDREC with the spaces removed which are now no longer the correct codes and the filter fails to return the correct results because the codes no longer match. Since 2.10, the report info list filters are now stored in preferences under the attribute REPORT.InfolistFilterSettings2010. Should we expect the filter profiles to save spaces in values correctly? If so, this bug can hopefully be actioned to resolve this. Usually, spaces in codes are not recommended in all areas of the system because of obscure issues like this that crop up.

Resolution:

The filter string is now 'trimmed' instead of being stripped of all it's 'whitespaces'.



3.14 SAS - List Performance Issues

Jira Reference: [CRIS-6368](#)
Affected version: 2.11.03.

SAS report the lists are slower in CRIS than pre upgrade, when I did the team share with Brighton, the issue seems to be that the lists have a laggy feel when moving up and down the list, this is why we described this as a "scrolling" issue. It when the user scrolls around the list or highlights a certain patient record, it can take a second or two for CRIS to catch up and then perform the requested action on screen. I think this gives the user the overall impression of the lists being slower than before. This issue happens on most of the lists in CRIS (vetting, request, waiting, day list) but the main one they get moans about is the vetting list.

One thing we noticed in the logs for any list was that you run the initially query when you click the [list] button, it will do the query to obtain the list of results but then as you scroll down the list, it runs another query for each event/exam as it appears on screen in turn. I guess this could be the likely candidate for the lack of responsiveness on the list if the app is waiting for data to be returned from the DB before proceeding and moving down the list.

Resolution:

Code has been added to fully populate the Exam data in the list in a low priority background thread, once the list has been displayed to the user.

This is turned on with XR setting **GENERAL.ListsPullExamDataPostDisplay** set to "Yes".

This should make scrolling of the list's smoother after a couple of seconds, based on the list length.

Also added code to pull in the DaysWait and WeeksWait column data as part of the initial data pull If the columns are visible. This applies to most of the EventLists. i.e. Day, Unprocessed, Appointment, Request, Vetting, Waiting

This means that the data shown in the SAS lists should be pre-loaded prior to the user scrolling down the lists and avoid extra database calls in this instance while the user is scrolling and it should therefore seem less 'laggy'.



3.15 Interface messages fail to generate due to modalities room column.

OTRS Reference: [00186421](#)
Cloned from: [CR-2619](#)
Jira Reference: [CRIS-6391](#)
Affected version: 2.12.03.

The interfaces team found that the messages were failing to generate to PACS and therefore being stored in the failed interface queue. The error in the message manager states, "The column name modalities was not found in this result set".

Not all messages were failing though, only certain ones which was confusing at first.

Resolution:

A new room object is created from a 'ResultSet'. This 'ResultSet' was expected to contain a 'modalities' column. However, there is an occasion that the 'ResultSet' used does not contain the 'modalities' column and consequently a PSQL exception was thrown.

A new constructor for the room object is now available that doesn't rely on the 'modalities' column being present in the supplied 'ResultSet', the values for the modalities are retrieved beforehand and passed into the constructor as a separate parameter.



3.16 Missing Stat - EVENTS.IS LINKED TO PAS

OTRS Reference: [00188285](#)
Cloned from: [CR-2630](#)
Jira Reference: [CRIS-6410](#)
DevOps Reference: [DOP-162](#)
<i>Affected version: 2.12.03.

We have found the stats module is missing Stat "EVENTS.IS LINKED TO PAS" but the stats method is in the database.

Resolution:

Corrected in the database.



3.17 New Rooms modalities not saving correctly in Rooms setup table

Jira Reference: [CRIS-6414](#)

Affected version: 2.12.03.

When adding a new room to the 'Rooms' table in CRIS setup, the 'modalities' value isn't saving initially. So, the new rooms need to be edited before the 'modalities' value is saved.

Resolution:

A second call to update the 'rooms_modality' table is now made AFTER the new room has been inserted into the 'rooms' database table. The 'rooms_key' will now be available for the new room and the 'modalities' value will be saved.



3.18 Dragon doesn't always start

Jira Reference: [CRIS-6440](#)
Affected version: 2.12.03.

Handshaking signals between Dragon and CRIS are not always being processed.

Resolution:

Find an issue where the Dragon app would request logon parameters, we would send them, the Dragon console said it was logged in, but it did not send the confirmation status back to CRIS. There was a possibility of crossed signals to and from Dragon at this point so altered the code to eliminate this possibility.

Also noticed on a re-login that the Event PoolExecution Service got more threads added, rather than just re-used the ones it had.

This has also been fixed.



3.19 Lists not updating in CRIS

OTRS Reference: [00148318](#)
Cloned from: [CR-2330](#)
Jira Reference: [CRIS-6457](#)
Affected version: 2.12.03.

When you have XR setting **GENERAL.WarnShutdown** set to "Yes", if you hit the cross to close CRIS down, you should see a pop-up warning message to ask you if you want to close the application, you see a "yes" and "no" button.

If you click "Yes", CRIS will shut down as expected.

If you click "No" CRIS will remain open but from that point onwards most lists (day list, appt list, waiting list, request list, orders list) won't update when you click "list", no matter how many times you try or how many filters you change. i.e., any patients already on the list will remain, however any new patients which should appear on the list don't. Note that the report info list remains unaffected by this bug.

This is easy to spot if you open a list that you previously didn't have open during your session (request list for example, which should always have something on it) as the list will now be completely empty.

Resolution:

When the shutdown button is pressed, the first action is to call
`abstractList.blockQueriesFromRunning(true)`.

When we get the shutdown dialog and press 'N' we need to call
`AbstractList.blockQueriesFromRunning(false)`.
to allow the lists to run again.



3.20 NPE thrown in Outgoing PAS interface when report verified

Jira Reference: [CRIS-6458](#)
Affected version: 2.13.00, 2.14.00.

A Null Pointer Exception is thrown in the interfaces when a report is verified and the resulting report message (ORU^R01) is sent back up to the PAS.

Resolution:

The correct HIS (PAS) patient is now loaded before the message is sent back up to the PAS.



3.21 Self-Check-in kiosk issue with postgres 12

OTRS Reference: [00186225](#)
Jira Reference: [CRIS-6462](#)
Affected version: 2.12.03.

Reference#00186225 Self Checkin Kiosk Software not working with PostgreSQL 12

Following a site upgrade to postgres 12 the self-check-in software fails to work. Investigation by the DB team is detailed below:

CRIS does this, where \$1 and \$2 are input fields and \$3 and \$4 are output fields:

```
select * from auth4($1,$2,$3,$4) as result
```

Self Checkin does this:

```
select auth4($1,$2,$3,$4) as result
```

The format of the Self Checking query essentially means that it will get all the output in one field, but it's still specifying two output fields (\$3 and \$4), so the query is malformed. This is triggering the error with Postgres 12, whereas Postgres 9.4 was tolerant of it.

I'm trying to confirm this with Dev at the moment but it's proving difficult as no one actually develops it any more. However if I'm right then it will need an application update to fix the malformed query.

Hi all,

We've done some investigation and we've narrowed down where the problem might be by process of elimination.

There's no problem with the auth4 function itself. We haven't ever seen any errors coming from it, it works for CRIS and even the Self Checkin application runs the function without any errors.

I've been informed by Mick that Self Checkin uses CRIS as a wrapper for database connections, so it uses the same JDBC driver as CRIS, so it can't be a driver issue.

Which suggests that the problem must be in the Self Checkin application itself, so it's quite hard to investigate from a DB perspective. I can see some small differences in what it's doing compared to what CRIS does though, so I'm continuing to investigate.

Resolution:

Dan O'Hare identified and renamed labels in code in addition to those already relabelled.



3.22 Invalid mobility code saves for portering

OTRS Reference: [00191530](#)
Cloned from: [CR-2657](#)
Jira Reference: [CRIS-6539](#)
Affected version: 2.12.03.

When on the portering request screen (right click event and select "request porter"), the mobility field has a pick list if you double click or f4 in the field.

The bug is that even though there is a pick list, you can manually type in any letter into the field and CRIS will allow you to save the porter request. Not the biggest bug in the world but a bug, nonetheless.

Resolution:

The mobility field on the porter request page will now only accept valid mobility codes or blank.



3.23 Coded phrase codes are trimmed to 10 characters

OTRS Reference: [00163191](#)
Cloned from: [CR-2409](#)
Jira Reference: [CRIS-6564](#)
Affected version: 2.12.03.

While in the report editor, you can type a single "word", double click it to select and highlight the whole word. If you then click the "insert coded phrase" icon, a small window pops up and the selected word should prepopulate into the coded phrase field.

The problem is that when the code for the phrase is over 10 characters long, the code is trimmed from the left to 10 characters. The application will let you create codes longer than 10 characters though so really CRIS shouldn't be trimming this on the pop-up phrase window.

Resolution:

When the 'Coded Phrase' was obtained from the report editor, only the first 10 characters were being retrieved due to hard-coded variables set to 10. These variables have now been increased to 12, so the longest possible 'Coded Phrase' can be processed correctly.

The database only allows a maximum of 12-characters for a 'Coded Phrase' so that's why the hard-coded value has been set to 12.



3.24 NPE displayed when saving a Dictation.

Jira Reference: [CRIS-6595](#)
Affected version: 2.12.04, 2.14.00.

Before starting CRIS ensure that a microphone/headset is connected to the PC.
Open the 'Report Info > Unreported' screen.
Filter list for unreported exams and click to select exam and press 'Dictate'.
The 'Dictate' screen will be displayed.
Press 'Record' and input a voice monologue.
Press 'Save'.

A NPE is displayed.

Resolution:

This was due to a temporary alteration while checking out memory loss items. The static instance of ReportInfoList was commented out. This has been put back now, so the ReportInfoList.getInstance() method returns the original copy which can be used in the Dictation page.



3.25 NBS Interface issue for 2.12.03b

OTRS Reference: 00192336
Jira Reference: [CRIS-6647](#)
<i>Affected version: 2.12.03b</i>

This Problem Record has been raised to look into a Development fix for the NBS interface which requires ORC:9 being populated on the OMG messages, Versions of CRIS before this never required this and this meant NBS never sent this. This PR is to look at better handle the NULL field.

Resolution:

The date and time of the event is now correctly obtained from OBR:27.4 in all cases where an OMG^O19 'Attendance' message is received.
Code changes made against CRIS-6562 on the 2.12.04 codebase have been successfully ported across to the 2.14.00 codebase.



3.26 GM Unable to search for accession numbers

OTRS Reference: [00171369](#)
Jira Reference: [CRIS-6648](#)
Affected version: 2.09.10t1g1.

On December 10th GM's exam numbers rolled over from 8 digits to 9 digits. And this is now affecting users from being able to search by accession numbers. Currently, they can search for accessions before the rollover but any with the new 9 digits can't be searched for

Resolution:

The accession number consists of a prefix, the exam/event key, and a suffix.

We can assume that there we always be a prefix, but we can't be sure how this will be set. So now to find the exam/event key, the prefix is stripped away to find the key. This key value is used to find the exam/event being search for.

If the width of the exam/event key rolls over from 8 to 9 for example, it has no impact on the way the key value is obtained, so searching for old or new events will work as expected.
Code ported from the 2.12.04 codebase against CRIS-6461.



3.27 Slow Day List Query (2.10.00+)

OTRS Reference: [00195413](#)
Jira Reference: [CRIS-6682](#)
Affected version: 2.10.16, 2.12.03b.

Bath upgraded to 2.12.03b and reported that their day list was very slow post upgrade, almost to the point where it's unusable.

It looks like Bath have a process whereby they outsource some exams for reporting after attendance. These events have a "sent for reporting" and "Received:Report" status codes to indicate when each of these things happen, both status codes exist under the ST status category and the status current updates to "Y" for the ST status.

It appears that from 2.10 onwards, when you run a day list query, the query includes this section:

OR (status.status_category = 'ST' and status.start_date >='18-Oct-2020')

This line means that it'll find and check any event which has a status category of "ST" and the start date is greater than or equal to the date you enter into the day list filter, in this case 18-Oct-2020.

In this case for Bath, they have lots of events where the reports are completed externally after the attendance date. The day list query is finding events that aren't even attended on the date you put into the date filter.

If I search for 18-Oct-2020 on the day list, CRIS finds and pulls data for exams which aren't attended on this date but have had a report status on or after 18-Oct-2020. You can see this by checking the list of exams being pulled in the java log as CRIS is collating the results.

Example E-22857117 - Attended on 07-Oct-2021

CRIS doesn't display this example event on the day list because it was attended on 07-Oct-2021 but the DB is pulling this data unnecessarily as we don't care about anything not attended unless it's for 18-Oct-2020. The result is that it's slowing down the day list refresh massively.

The further back you search on the day list, the more results are being pulled from the DB because of the greater than or equals condition. So, if you searched for a year ago for example, CRIS will request for data for all events from 1 year ago onwards which have had an external report status (which will be lots) as well as the genuine attendances for the date you enter. Doing this on Bath LIVE will cause CRIS to hang for 20 mins while it tries loading all the data but then it will eventually fail with an out of memory error.

The correct functionality you would think would be that the query only checks for the specific date you enter into the day list date filter, because it will only ever show events from that date anyway. So I think the SQL query needs to be amended slightly to remove the ">": OR (status.status<i>category = 'ST' and status.start</i>date = '18-Oct-2020')

Resolution:

Altered one liner to set start_date = 'testdate' rather than start_date >= 'testdate'.



3.28 Sorted list ordering lost when dictating.

OTRS Reference: [00195532](#)
Cloned from: [CR-2688](#)
Jira Reference: [CRIS-6683](#)
Affected version: 2.12.03b.

Users have discovered that when you use "auto select next event" on the unreported report info list, if you then sort the list by a column (e.g exam code), when using the dictate button, the order of the next patient loaded does not match the sorted order on the list. The list order resets when you move to the next patient and the sorted order is lost (but the icon to show the list is sorted by column header is still present).

Note that this functionality works as expected if you use the report button from the RIL, it is only the dictate button which presents this issue.

Resolution:

The column ordering on the unreported list is now preserved when skipping or saving on the dictation page.



3.29 2.12.04/2.12.05 - All linked patients are yellow records.

OTRS Reference: [00197164](#)
Cloned from: [CR-2708](#)
Jira Reference: [CRIS-6725](#)
Affected version: 2.12.04.

The issue is that when you perform a patient search by name, any matching patients records with a linked PAS record will display in yellow, i.e a yellow record.

A yellow record usually indicates a mismatch in patient demographics between the HIS and patient table rows, however this bug means that the records show in yellow even though all patient demographics match in both tables.

This presents a big issue to the users because up until now, a yellow record means that there is a mismatch on the patient demographics and users will generally avoid these records until corrected by a PAS update. With all linked patient records now showing in yellow, this would be extremely confusing to the users.

Resolution:

All linked patients are now shown as Blue records when being displayed in the Search results page.



3.30 Patient has been merged on CRIS rejection message issue.

OTRS Reference: [00196887](#)
Jira Reference: [CRIS-6734](#)
Affected version: 2.12.03b.

When an OMG^O19 Message is received for a patient who is a child of a merge and the attribute TransferOrderToMajorPatient is not declared or set to false.
An ORG^O20 message will be sent back to order comms.
In 2.12.03 this message no longer has ORC:2 or OBR:2 populated which is preventing the order comms from processing the message.

Resolution:

Code successfully ported from 2.12.06 against [CRIS-6718](#).



3.31 Reports not being sent for externally reported events - test in 2.14.

Cloned from: [CR-2718](#)
Jira Reference: [CRIS-6769](#)
Affected version: 2.12.03, 2.14.00.
OTRS Reference: [00198204](#)

If an event is initially reported as provisional by the external reporter and then a subsequent verified report is sent then no VERIFY or SENDVERIFY trigger is generated this is because there is an error trying to insert the exam summary which already exists.

Resolution:

There have been no code changes directly within this issue. Previous changes made to the operation of the 'exams_summary' table and the 'QuickEventSummary' stored procedure, has fixed the issue outlined in this ticket.



3.32 NullPointerException error when microphone not plugged in while loading CRIS (Augnito)

OTRS Reference: [00200428](#)
Cloned from: [CR-2727](#)
Jira Reference: [CRIS-6832](#)
Affected version: 2.12.05.

When a user has Augnito configured, and the transcription device is not plugged in you get a null pointer error when you exit a report.

Resolution:

The null pointer exception that occurred when a user exited a report whilst having no microphone has been fixed.



3.33 Local storage of log level does not always save.

Jira Reference: [CRIS-6848](#)

Affected version: 2.12.05, 2.13.00, 2.14.00.

If you have the log level set to store locally (Java Console Log Level combobox right click option) then the level is only saved if you click the persist log level locally from off to on, rather than when you change the actual log level.

Resolution:

method changed to...

```
private void logComboItemStateChanged(java.awt.event.ItemEvent evt) {
    if (evt.getSource().equals(this.mnuPersistLogLevel)) {
        if (cris.persistLogLevel != mnuPersistLogLevel.isSelected())
        { cris.persistLogLevel = mnuPersistLogLevel.isSelected(); logComboItems(true); }

        } else if (evt.getSource().equals(logCombo)) {
            Level oldVal = Logger.getRootLogger().getLevel();
            Level newVal = (Level) logCombo.getSelectedItem();
            if (oldVal != null && newVal != null && !(oldVal.equals(newVal)))
            { logComboItems(true); }

        }
    }
```



3.34 Dragon - one of the logger messages is mis-leading.

Jira Reference: [CRIS-6893](#)

Affected version: 2.12.05.

From the Dragon15Control source file. This logs the output as being from another class which is mis-leading when following the bug-trail.

Resolution:

Altered the logger line that sets up the logger, so it correctly reflects the class that stores the message as hss.digitaldictation.dragon15.Dragon15Control



3.35 Post processing error when using attend/process functionality.

OTRS Reference: [00203725](#)
Cloned from: [CR-2742](#)
Jira Reference: [CRIS-6955](#)
Affected version: 2.12.05.

When using post processing mode or sonographer mode within CRIS, when creating a new event, you can use the attend & process button. When using this button, you attend the patient and are then taken into the post processing screen.

From here if you fill out post processing fields as normal, when you click finished and save to save the event, an error occurs to state that the event could not be saved because of null. Post processing is therefore not saved.

Resolution:

A change was made to address an issue explained in [CRIS-6124](#). The fix relied upon the exam status being present, i.e., having a value even if the value was blank, at the time the post process trigger was issued.

If the scenario described above is performed, the exam status at the same point is 'null', so an error occurs, and the post processing cannot be completed.

A change has been made to detect this 'null' state when the exam is first created, and the status is set to "". This will prevent a null pointer exception and allow post processing to be completed without error.



3.36 Error message since 2.12.05 upgrade- Cannot change patient details when searching.

OTRS Reference: [00204088](#)
Cloned from: [CR-2748](#)
Jira Reference: [CRIS-6978](#)
Affected version: 2.12.05.

If the HIS record and linked patient record do not have the same forenames or surnames and the user account does not have GENERAL.NAME_CHANGE then you get the message could not load records you do not have permission to change a patients name

Resolution:

No code changes.

Problem has been resolved in 2.12.06 and beyond due to changes made to fix other, related issues.



3.37 Status comment for multiple exams not saved.

OTRS Reference: [00110806](#)
Cloned from: [CR-2128](#)
Jira Reference: [CRIS-7089](#)
<i>Affected version: 2.12.03b</i>

CRIS appears to save the comment initially but then the comment is updated with the comment taken from the first exam comment when you then save the event. If no comment is present on the first exam status, then the comment against the second exam status is wiped and shown as blank when the event is saved, rather than being taken from the first exam status comment.

What should happen is, each comment should be stored independently against the status row and not 'look' at the first exam status comment at any point.

Resolution:

Each individual exam status comment is saved independently as before, but is no longer overwritten when the event is saved, as before.



3.38 Lead Clinician not populating with order to request feature turned on for Plymouth.

OTRS Reference: [00213193](#)
Cloned from: [CR-2796](#)
Jira Reference: [CRIS-7166](#)
Affected version: 2.12.06.

When the `<attribute name="OrderToAppointment">true</attribute>` or `<attribute name="OrderToRequest">true</attribute>` are set on an Order comms interface the event is created at the appropriate status but Lead Clinician is not copied from the Order to the event.

Resolution:

During the Order to Request conversion process, if the lead clinician exists, it is now set on the new request.



3.39 Unable to open documents with double spaces in name.

OTRS Reference: [00204363](#)
Cloned from: [CR-2750](#)
Jira Reference: [CRIS-7176](#)
Affected version: 2.10.18.

Issue where attached documents cannot be opened and viewed within CRIS, but they can be downloaded if the filename has double spaced in its name, e.g "Docu Ment Test.pdf".

Resolution:

Opening attached documents with two spaces in the name is now possible.



3.40 Warning message 'Second exam added during Post Process' Test again with new site codes

Cloned from: [CRIS-7205](#)
Jira Reference: [CRIS-7261](#)
Affected version: 2.12.06, 2.14.00.

Workflow

Create an Order (OMG^O19) HL7 message for an exam E1 with a 6 char ODS code for a PAS registered patient 'A'..

Send HL7 message to OCS interface on systest3.

Load patient 'A' into 'Events' list and select Order E1 and attend.

Re load patient 'A' and exam E1 press 'Process

And a second exam in event details

Outcome

A 'second exam added during Post Processing' warning dialog is displayed with text 'You are adding a second exam while Post Processing this event. You MUST save your changes.

If you press 'OK' you then have the option to save

Resolution:

A PAS generated order now passes all validation as it propagates through the workflow.



3.41 Rejected events show at top of event list.

OTRS Reference: [00214466](#)
Cloned from: [CR-2811](#)
Jira Reference: [CRIS-7347](#)
Affected version: 2.12.03c.

A customer has informed us that when you have a patient who has one or more request rejected events in CRIS, these events will display at the top of the patients event list with any other active events.

As far as I can tell, when you open a patient, CRIS orders the events in the following way:

Any active orders, requests, waiting or appointed events first at the top, then any already attended or cancelled events underneath the above.

The request is therefore to alter CRIS so that any request rejected events are moved under the active events, since they are rejected and require no further action they can be shown within the same section/order as the rest of the attended/cancelled events.

Resolution:

An XR setting 'GENERAL.RejectedRequestListOrder' has been added to allow the ordering of a patient's event list to display rejected requests at the end of the list.



3.42 Report lock icons showing after report verified (minor bug)

OTRS Reference: [00179973](#)
Cloned from: [CR-2581](#)
Jira Reference: [CRIS-7368](#)
Affected version: 2.11.08.

It appears that when reporting events from the unreported report info list, once you verify a report, you are returned to the list as expected. The issue is that while a green verified tick icon shows against the report you just verified (as expected), there is also a report lock icon present in place of the summary report icon.

Resolution:

Lock icons are no longer displayed after verifying a report.



3.43 Reception mode vetting bug port from 2.12.08 to 2.14

OTRS Reference: [00220812](#)
Cloned from: [CR-2843](#)
Jira Reference: [CRIS-7387](#)
Affected version: 2.12.07.

The bug is that when you complete vetting on an event while in reception mode, you are taken into the event details screen after vetting is saved.

From here, maybe you add an event comment or change the urgency or something but if you then perform a save on the event by clicking [SAVE] button, the event saves the event, clears the screen but crucially, this updates the vetting_status in the events table from "VC" to "VW" (awaiting vetting).

The above then means the event still shows on vetting lists as needing to be vetted when in fact it has already been performed.

Resolution:

All code changes from [CRIS-7326](#) in 2.12.08 have been ported over to 2.14.00.



3.44 Interface messages failing to send outbound shortly after an interface restart.

OTRS Reference: [00219615](#)
Jira Reference: [CRIS-7388](#)
Affected version: 2.12.06.

Interface messages failing to send outbound shortly after an interface restart has taken place.

Resolution:

Managed to trap the NPE to allow messages to be sent outbound.



3.45 Blank operator on multi exam event

OTRS Reference: [00219522](#)
Cloned from: [CR-2840](#)
Jira Reference: [CRIS-7390](#)
Affected version: 2.12.03b.

if you have a multi-exam event, when you post process this, if the user clicks into the operator field for the first exam, removes the pre populated code and then click into any other field but then clicks back into operator and repopulates the code, when they save PP the operator against the 2nd & 3rd exams remains blank. Usually, the operator is set by default to the logged in users radiog code on each of the exams on the event.

This causes an issue because the exams with a blank operator do not have a post process message triggered to PACs which leads to a delay in reporting.

The simplest way to stop this would be to change it so that once the user clicks into the operator field, you can't come out of it unless you select a valid code set in the field. Of course, open to other suggestions on how to prevent this scenario from happening.

Resolution:

The code now handles this ridiculous workflow.

'POSTPROC' triggers are now generated for all exams.



3.46 Error when changing vetting or urgency on auto created requests.

OTRS Reference: [00217986](#)
Cloned from: [CR-2827](#)
Jira Reference: [CRIS-7392](#)
Affected version: 2.12.06.

If you have the interface attribute `<attribute name="OrderToRequest">True</attribute>`
It creates an event at request status but sets book_mode to 'S' special diary and a number of other fields which are not usually populated on a request.

Resolution:

Various event data are now set in accordance with the configured conversion process, i.e., if the event is a request, the exam's book mode is set to 'O' and the exam date is set to '2099-01-01'. If the order is being converted to an appointment, the exam's book mode is set to 'S' and the exam's date is set to the date of the appointment.



3.47 Augnito hangs if audio source becomes unavailable - test this in 2.12.08

OTRS Reference: [00217497](#)
Cloned from: [CR-2826](#)
Jira Reference: [CRIS-7393](#)
Affected version: 2.12.08.

If audio device becomes unavailable (unplugged) whilst dictating Augnito and CRIS will freeze with the partial result popup, and you can only close CRIS using Task Manager

Resolution:

The user is now warned if a Speechmaker is removed whilst the user is recording a report.



3.48 Augnito microphone going grey and loss of dictation.

OTRS Reference: [00231609](#)
Cloned from: [CR-2890](#)
Jira Reference: [CRIS-7592](#)
Affected version: 2.12.10, 2.14.00.

Several users at North Bristol have complained that the microphone goes grey during their dictation session and when this occurs the words they say are not included in the text.

Resolution:

This issue cannot be replicated consistently in any environment, and a definitive cause of this issue is impossible to identify.

Several changes have been made around management of the microphone and WebSocket connections to the Augnito service.

This functionality has been extensively retested, and the issue now cannot be replicated at all.



3.49 Augnito froze with blank partial result window whilst user was dictating.

Cloned from: [CR-2909](#)
Jira Reference: [CRIS-7598](#)
Affected version: 2.12.10.

The radiologist was not able to toggle off the recording so once they had completed the report it kept adding words to the report due to background noise and she couldn't toggle the microphone off.

Resolution:

The preview box is no longer a modal overlay but is instead displayed inline, like hint text. It should no longer be possible for this to cause freezes.



3.50 After approx. 1 hour use, the text appears in partial result box but does not appear in the report

Cloned from: [CR-2910](#)
Jira Reference: [CRIS-7599](#)
Affected version: 2.12.10.

After approx. 1 hour use, the text appears in partial result box but does not appear in the report.

Resolution:

Excessive connection and audio threads have been removed which should reduce system overhead. This issue cannot be replicated consistently in any environment, and a definitive cause of this issue is impossible to identify.

A number of changes have been made around management of the microphone and WebSocket connections to the Augnito service.

This functionality has been extensively retested, and the issue now cannot be replicated at all.



3.51 When using the 'next field' command and placing words into the [] the first word is NOT capitalised.

Jira Reference: [CRIS-7600](#)

Affected version: 2.12.10.

When reporters are using templates, the sentence entered in between the [] is not being written with a capital letter.

Resolution:

Phrases spoken after any of the 'first/next/previous/last field' command have been executed are now capitalised.



3.52 Augnito continued to transfer speech to report after mic turned off showing red

Cloned from: [CR-2917](#)
Jira Reference: [CRIS-7635](#)
Affected version: 2.12.09, 2.14.00.

During testing at Nuffield at approx. 11:22 the mic was switched off and icon went red, but our conversation was converted by Augnito and put in the report.

Resolution:

This issue cannot be replicated consistently in any environment, and a definitive cause of this issue is impossible to identify.

A number of changes have been made around management of the microphone and of WebSocket connections to the Augnito service.

This functionality has been extensively retested, and the issue now cannot be replicated at all.



3.53 Augnito text being missed and not appearing in the report.

Jira Reference: [CRIS-7637](#)
Affected version: 2.12.09, 2.14.00.

<p>Testing 2.12.09

Creating a report from entry in ReportInfo List. user is baziladmin, in Reporting mode.

Using an audio file, 2+ minutes of Basil reading out a sample radiology report pre-recorded on phone and playing from speaker into microphone. This audio file has produced consistent results in tests prior to seeing this failure.

Text from audio is as follows. Recording of audio file extract is attached.

A moderate to large effusion is seen in the tibiotalar joint <comma> extending both anteriorly and posteriorly <full stop> A moderate effusion in the posterior subtalar joint extends posteriorly greater than anteriorly <full stop> There is marked subcutaneous edema overlying the lateral lower leg and ankle <full stop> The Achilles tendon <comma> plantar fascia <comma> and intrinsic muscles of the foot are unremarkable <full stop> <new paragraph>

Text appearing in report was:

A moderate to large effusion is seen in the tibiotalar joint, extending both anteriorly and posteriorly. A moderate effusion in the posterior subtalar joint extends posteriorly greater than anteriorly. Plantar fascia, an intrinsic muscles of the foot are unremarkable.

Resolution:

If a user stops recording before Augnito has finished recognising speech, or a network connection to Augnito closes unexpectedly, any text recognised up to that point will be inserted into the report but highlighted to show that text must be reviewed.

Once the text has been reviewed the user should open the right click menu on the report and choose "Accept partial VR results".



3.54 Augnito - clearing patient by voice command gives IndexOutOfBoundsException.

Jira Reference: [CRIS-7638](#)

Affected version: 2.12.09.

Having created report text using VR, user says "clear patient".

This command is recognised correctly, and a confirmation dialog is displayed. "are you sure you wish to clear without saving the report?"

On click ok, the user is returned to the ReportInfoList, but an error is displayed.

java.lang.IndexOutOfBoundsException

Resolution:

When clearing a patient using the voice command "clear patient", the patient is cleared, and no exception is thrown.



3.55 Reporting/Augnito - StackOverflowError when deleting all report text.

Jira Reference: [CRIS-7639](#)

Affected version: 2.12.09.

Create some report text (approx. 15 lines) using VR,
using mouse, select all the report text.
using delete key, delete the text.
get stackOverflow Error

Log file has >1000 lines of text for this error:

Resolution:

When deleting any text, no matter it's size, the code calls a spell-checking method. This method is recursive and repeatedly calls itself until it has spell-checked the whole text. Now when a large area of text is to be deleted, no checks are made to monitor the stack, so an exception occurs.

The solution is to either monitor the stack and repeatedly check it to see if its save to carry on, or to stop spell check while deleting. I have gone for the latter at this point.



3.56 Augnito - High numbers of connections reported on Augnito servers.

Jira Reference: [CRIS-7641](#)

Affected version: 2.12.10.

Augnito are experiencing very high user numbers on their servers from UK connections.

This may indicate that CRIS is not closing connections to Augnito when it thinks it is.

3-4 hours of testing (heavy but not continual use of VR) produced 1210 connections to the Augnito server.

Resolution:

The connection to the Augnito server is now only created when the microphone is turned on and the connection is closed when the microphone is turned off.



3.57 Augnito - newline should not be inserted in field text

Jira Reference: [CRIS-7648](#)
Affected version: 2.12.09.

When using fields, a new line is inserted after the first block of recognised text.

This should not be done as it is often not wanted in the document. A user can insert their own "new line" voice command if they want it.

Resolution:

Phrases spoken directly after a 'first/next/previous/last field' command has been executed, can, in some circumstances, move the cursor to the start of the next line.

This new line character ("\n") has now been replaced.



3.58 Microphone icon goes grey, then red, then CRIS freezes

Jira Reference: [CRIS-7673](#)
Affected version: 2.12.09, 2.14.00.

<p>Doing a long test of CRIS-7671.

Steps for each report:

- * Time is noted.
- * Microphone is turned on via shortcut key (keyboard plus).
- * Report audio file is played
- * Microphone is turned off via shortcut key (keyboard plus).

Every fourth report, the patient is cleared, and user returns to Report Info List.
Same report is selected and re-opened for reporting.

Observations:

After 17 reports, results almost entirely very solid.
Some minor transcription errors. Nothing untoward.

Some text missed at the start of report #10 (16:29).
Logs suggest it took 28 seconds to create a WebSocket connection
when typically, it is much faster.
Augnito did not drop audio. I just started playing the audio file before the connection was established.

Microphone was turned off after 17th report, using shortcut key as normal.

18th report:
Noted the time as 16:49.
Tried to turn on microphone via shortcut key
Icon went grey.
Icon stayed grey.
Pressed shortcut key again.
Icon went red
Pressed shortcut key again.
Icon stayed red
Clicked on microphone icon.
CRIS became entirely unresponsive. (screenshot 1)
Still unresponsive 10+ minutes later.
console window also frozen but no obvious evidence of memory issues.

Resolution:

This issue cannot be replicated consistently in any environment, and a definitive cause of this issue is impossible to identify.
Several changes have been made around management of the microphone and of WebSocket connections to the Augnito service.
This functionality has been extensively retested, and the issue now cannot be replicated at all.



3.59 Augnito - Spoken text not being transcribed to report.

Jira Reference: [CRIS-7676](#)
Affected version: 2.12.09, 2.14.00.

Steps for each report:

- * Time is noted.
- * Microphone is turned on via shortcut key (keyboard plus).
- * Report audio file is played
- * Microphone is turned off via shortcut key (keyboard plus).

Every fourth report, the patient is cleared and user returns to Report Info List.
Same report is selected and re-opened for reporting.

Observations:

Only four reports were recorded as missing text occurred on all four reports but most significantly on report #2.

Resolution:

Cause of this issue was an unexpected WebSocket closure, due to an external event/factor.

Functionality is being introduced into this release (CRIS-7679) to capture this event and to display an appropriate warning to the user, along with any partial results which were received.



3.60 Microphone can be turned on outside of reporting window - icon then shows red even though microphone is on.

Jira Reference: [CRIS-7680](#)

Affected version: 2.12.09, 2.14.00.

It is possible to turn on the microphone, when not actually reporting. e.g., on Report Info List.

Microphone icon is green.

However, when a report is started, the microphone turns red.

Microphone is still on and is recording information.

This is broadly related to [CRIS-7635](#), in that the microphone is recording when the icon indicates that it shouldn't.

But steps are significantly different.



3.61 Exam Validation should be considered for orders.

OTRS Reference: [0071043](#)
Cloned from: [CR-1689](#)
Jira Reference: [CRIS-1947](#)

If you manually try to enter two of the same event, ExamValidation takes place (at the point of tabbing out of the Exam Code field and if the limit is breached, a warning is displayed., i.e. "The patient has a conflicting EXAMCODE within the last X days" - where X is defined in the ExamValidation table. However, multiple orders can be sent into CRIS and processed into events for the same Exam Code without a warning being issued. The process of ExamValidation appears only to be called when manually adding an exam and is missed when processing orders.

Resolution:

Opening (via 'Change') orders from the Orders List or the Patient's event list will trap any invalid exams and display a warning to the user.

Likewise, opening a request (via 'Change') from the Request List or the Patient's list will trap any invalid exams and warn the user.

Opening multiple orders together to create a single event, will trap any invalid exams and warn the user.



3.62 E-mail patient letters does not work with 64bit mail client.

OTRS Reference: [00184227](#)

Cloned from: [CR-2602](#)

Jira Reference: [CRIS-6296](#)

CRIS will not launch the email functionality when the Email is a 64 bit version of Outlook

Resolution:

The code will now send emails directly to a configured SMTP server that does NOT need authentication. If is setup using a couple of XR settings.

GENERAL.DefaultSupportEmail (this is what we would send as a 'ReplyTo' address)

GENERAL.SMTPEmailAddress (internally testing with relay.Hssnet.com)

GENERAL.SMTPEmailPort (default=25)

Also - if a particular user wants to have their email put out as the From: email address, this can be done by using USER.Email as a UserPreference.

ALTERNATIVELY, if the user wants to use the Outlook email client, then the user must add the path to the Outlook client into the XR OutlookEmailLocation. This should be the path to the executable. In this case, if CRIS finds the outlook application it will use that to create an email. This DOES require that the Subject and Body in the template should have simple text in it, and no symbols. only alphanumeric characters. The attachment can contain whatever you like.

This relies upon the javax.mail-1.6.2.jar file added to this task.



3.63 Issues with CRIS not displaying the Scanned Documents icon for custom options.

OTRS Reference: [00190941](#)
Cloned from: [CR-2646](#)
Jira Reference: [CRIS-6578](#)

We have found if a customer created their own custom option in the scanner list (Instead of picking the defaults like REQCARD), CRIS does not display the icon that they have a scanned document attached.

Resolution:

First stage done in code. This performs the action without updating functions in the database.

A database call is made each time a row is displayed,(only the first time) to calculate the documents and count. This may lead to a minor performance degradation.

We may need to look at this further if response drops.

This is enabled with XR setting AVDATAMANAGER.ShowDocumentCount whose default value is No. (off).
Re-done using new quickeventsummary and eventsummary functions.

We have added a XR setting to allow the user to see a representation of the count of documents in AVData store against each event.

This is enabled with XR setting AVDATAMANAGER.ShowDocumentCount whose default value is No. (off).
A highlight band behind the scanner and printer icons gives an indication if ANY documents have been saved against the event. Hovering over the scan/print icons area lets you know the type and number of documents stored.

The scanner icon ONLY appears if there is a Request Card document stored. The printer only shows if we have had an Appointment Letter printed.

The height of the band behind the icons gives an indication of how many documents are stored. Full band height is reached if we have over 15 documents stored.



3.64 CRIS crashing with fuji PACS and 2.11.03/4 and Dragon 11/15RJA/42731/CRIS closing on its own

OTRS Reference: [00172568](#)

Jira Reference: [CRIS-6649](#)

To investigate the intermittent crashes of CRIS at two Fuji PACS sites using 2.11.03/4/5

Resolution:

Changed the COM libraries from 'jawn' to 'jacob'.

Rename DTI package to synapse_2021 so original synapse4 can still be used if necessary.

The latest version of the Fuji PACS (Synapse_2021) is already completely implemented into the 2.14.00 codebase.

The original issue was that the old 'jawn' COM libraries were not fully compatible with Java 8 so were replaced by the 'jacob' equivalent libraries. To allow users to access both the old and new versions of the DTI, I created the 'Synapse_2021' DTI interface. Both the previous and current versions of the Fuji Synapse DTI are now available in the 2.14.00 codebase.



3.65 Accessing post processing leaves entry in table causing report warning

OTRS Reference: [00206109](#)
Cloned from: [CR-2763](#)
Jira Reference: [CRIS-7173](#)

If you go into post processing on an event which has been post processed and has a provisional report when you clear patient the report lock remains in place

Resolution:

A lock is no longer held when an event has been reported and is then post-processed and cleared.



3.66 Orders missing on orders list due to invalid exam.

OTRS Reference: [00206057](#)

Cloned from: [CR-2762](#)

Jira Reference: [CRIS-7174](#)

An issue has been identified where some orders were going missing. The order could not be seen on the orders list but are present on the patient's event list.

Further investigations have revealed that this happens when the exam code on the order is invalid, i.e the exam code doesn't exist in the examcd table.

Testing has found that this behaviour has been this way for some time, testing as far back as version 2.10 it is the same.

We have a few options to improve this:

Display the order on the orders list but prompt the user to change the invalid exam code when they pick it up from there.

Reject the order as the exam code isn't valid.

Resolution:

Invalid/non-existing examination codes can now be seen on the 'Orders' list.

Hovering over the code in the 'Examinations' column will show a tooltip indicating this code is invalid and must be changed as soon as possible.

However, the 'Vetting' list will still block these invalid examination codes.



3.67 Obstetric Reports appearing as locked on Daylist.

OTRS Reference: [00195955](#)
Cloned from: [CR-2693](#)
Jira Reference: [CRIS-7209](#)

There is a particular sonographer workflow which is failing to remove the report lock. Looking at the java lock the delete at the end of the report has a type of process which will fail and cause the report lock to remain.

Resolution:

Interests are now correctly removed once a patient is cleared.



3.68 Study ID nulled when user saves exam.

OTRS Reference: [00191283](#)

Cloned from: [CR-2653](#)

Jira Reference: [CRIS-7210](#)

Attending the event evokes a JBoss interface trigger which populates the relevant field with the PACS SUID

If the user opens the event and saves, that then overwrites this data with the session data. As the Study ID is null in the session data this data is then overwritten with null.

Resolution:

If the study id is not set in CRIS, then it will not be saved to the database.



3.69 No order by set up when loading patient orders on events screen.

OTRS Reference: [00180192](#)

Cloned from: [CR-2582](#)

Jira Reference: [CRIS-7211](#)

Trust reported that latest orders are appearing randomly ordered within the patients event list, It was found that there was no 'Order By' on the SQL used to pull the orders list.

Trust have mentioned this was not the case before they upgraded to 2.11.02 but

This has been seen on 2.10 versions of CRIS and have identified this is consistent per user who loads the patient.

Resolution:

Orders on a patient's event list will now be ordered by default with the latest order first.

This ordering can be reversed by setting the XR setting GENERAL.ReverseOrdersEventList to Y.



3.70 Configure Web browser used by Change/McKesson PACS

OTRS Reference: [00214452](#)

Jira Reference: [CRIS-7318](#)

The McKesson DTI uses the class package hss.utils.WebBrowser.

This class invokes Internet Explorer (IE) using COM.

This will need to be replaced with a call to Desktop.getDesktop().browse(URI), which could be done in the WebBrowser class or could replace the creation of the WebBrowser object.

Resolution:

A new XR setting 'GENERAL.WebBrowser' has been created. If this is set to 'default' or 'DEFAULT' then the Windows system default web browser will be opened in cases where CRIS launches a web browser instead of Internet explorer. If Internet explorer is still required, then leaving the setting blank or setting it to 'ie' or 'IE' will keep the old functionality.



3.71 Accession prefix not assigned at trust level.

OTRS Reference: [00122336](#)
Cloned from: [CR-2180](#)
Jira Reference: [CRIS-7344](#)

When picking up an order for a site different to the one you are logged into, after select 'Keep' or 'Change' site, the Accession.Prefix setting is not taking into account this XR setting at a trust level (which is what most customers have setup). This essentially means that an accession number prefix is generated from system level. Site level is checked first, then if this is not set, CRIS will check for the value at system level, which for consortiums is an issue as each trust should have its own prefix.

Resolution:

The XR setting 'ACCESSION.Prefix' is now searched for at the 'trust' level if it can't be found at a lower level.



3.72 Mismatch in login data (log table)

OTRS Reference: [00213895](#)

Cloned from: [CR-2808](#)

Jira Reference: [CRIS-7348](#)

We're investigating some issues at GM where many users are being disconnected from CRIS constantly. While investigating this, we've found a bug could do with resolving so that it makes the support teams lives a little easier in future.

The problem is that if a user opens multiple instances of CRIS using the "new instance" button, the new instances aren't recorded as LOGIN within the log table. When the instances are closed using the red cross, a LOGOUT entry is inserted into a log table, so you end up with a mismatch of LOGIN and LOGOUT entries.

There could be two options to resolve and tidy this up:

- * When a new instance is opened using the button, a LOGIN entry is inserted for this.

- * Instead, when the additional instance is closed, it won't insert a LOGOUT entry into the log table.

Additional request from the DBAs: Would it be possible to also record some kind of session ID in this table, so we can easily tell which instance of CRIS has been opened/closed?

Resolution:

If there are ever more than one instance of CRIS opened on a terminal, closing an instance by selecting the 'X' in the top-right-hand-corner WILL NOT generate a 'LOGOUT' log to the log table. Closing an instance in the conventional manner, either selecting the logout icon or selecting 'File->Logout' WILL generate a 'LOGOUT' log to the log table as usual.



3.73 Unable to add alarm codes in 2.12.

OTRS Reference: [00224712](#)

Cloned from: [CR-2864](#)

Jira Reference: [CRIS-7429](#)

It looks like we have a "bug" in 2.12 when you try to add a new alarm code into the alarmcd table via the gui.

You click save and it says "column created_by does not exist in table alarmcd". I checked and confirmed this column doesn't exist, but it looks like the app thinks it should be there.

I think that this issue might have been introduced because of the following change:

DOP-80

To me it looks like the DB services team added the "created_by" & "created_date" columns to the alarm table as required but CRIS is looking for these columns in the alarmcd table, so it's possible that the wrong table has been amended in the CRIS code.

The alarm table is the one which needed the logging columns adding, not alarmcd. Alarmcd is only used to store the codes themselves, i.e a setup table.

I guess the fix for this would be twofold:

Remove the "created_by" and "created_date" columns from the alarmcd SQL insert when adding a new code to the alarmcd table.

Add the two columns to the SQL when a user saves the alarm against a patient record.

Resolution:

The underlying data and code object around the 'Alarms' setup table is now based around the 'alarmcd' database table. Previously the table was produced with data from both the 'alarm' (form fields) table and the 'alarmcd' (alarm codes) table. This wasn't an issue until the new 'created_by' and 'created_date' fields were added to the 'alarm' table.

Users can now add new alarms to the 'Alarms' setup table without error.



3.74 Vetting Protocol screen fields not scaling correctly.

OTRS Reference: [00171357](#)

Cloned from: [CR-2499](#)

Jira Reference: [CRIS-7432](#)

Problem record raised to improve how the fields on vetting protocol screen scale better according to how much text they contain, and for the scrollbar issue mentioned above.

Resolution:

The Protocol/Preparation text area has been fixed in size to prevent being made too small on initial display. The text area is now scrolled to the top when displayed to ensure that steps in the preparation are not missed.

All other protocol text areas will now be initially displayed from the first line.

3.75 Report text created in CRIS Reporting not displayed correctly in core.

OTRS Reference: [00232137](#)

Jira Reference: [CRIS-7520](#)

Report text does not show correctly in core CRIS when the XR setting **REPORT.AutoTextProtect** is enabled.

With XR setting **REPORT.AutoTextProtect** enabled, when you view a report in core CRIS that has been created in CRIS reporting, the report text is embedded into the banner.

Resolution:

With the '**REPORT.AutoTextProtect**' setting enabled, the first line of any report is checked to see if it contains any formatting characters. If it does, they are removed before being displayed in the report header.



3.76 The correct number of exams isn't returned for quickeventsummary.

Jira Reference: [CRIS-7712](#)

With the XR setting - 'GENERAL.UseQuickEventSummary' set to 'Yes', multi-exam events are not being displayed correctly on the 'Patient's Event' list.

When querying the 'quickEventSummary' database function against the 'eventSummary' database function, it's clearly visible that the 'quickEventSummary' function only returns one exam. This is due to the 'exam_summary' database table isn't being populated correctly.

Resolution:

New database triggers now check the validity of the data being inserted/updated to the 'exam_summary' table. To do this, both the exam data and event data need to be stored before this validation takes place, Once event and exam data is present the 'exam_summary' is updated.

The event/exam data is now stored correctly for multiple exam events thus allowing both the 'QuickEventSummary' and 'EventSummary' to be used when required.



3.77 Update to UK Core CRIS merge/unmerge processes.

Jira Reference [CRIS-7880](#)

A couple of issues have been solved in NIMIS Core CRIS which may benefit the UK Core CRIS.

1) When merging, the hospital number from the minor patient must be moved manually onto the major patient via the Merge GUI. This is now automated in NIMIS.

2) When unmerging, the hospital numbers of the minor patients remain allocated to the major patient. This process has been cleaned up in NIMIS.

To solve these issues, database changes are needed to store the computer numbers of the minor patient(s) prior to merging. Then these numbers can be retrieved correctly when the patients are unmerged, thus restoring all hospital numbers to the correct patients.

Resolution

The two processes outlined above have now been implemented into this release.



3.78 Alternative merge scenario fails.

Jira Reference [CRIS-7903](#)

One workflow to merge 3-patients does not merge them correctly, so when unmerging the same 3-patients, two of them are still merged.

Resolution

The merging process has been amended to cater for several alternative scenarios to the standard workflow.



4 Known issues.

The following issues have been identified during testing of this release.

These issues have been risk-assessed and have been accepted within this release. They may be addressed in a future release of the product.

Note that, as this is an internal document, there is full disclosure of all found issues. Discretion may be used in determining which of these to share with end users.

4.1 VR text is typed to the top of the Report, after user logs back in.

Jira Reference: [CRIS-6510](#)
Current status: *Resolved*
Affected version: *2.14.00*
Fix version: *2.12.04*

1. Dragon 15 VR is enabled in CRIS TableSetup > system > XRSettings.
2. A CRIS user i.e., user1 is logged into CRIS and has a Report open and speaks into microphone to dictate text.
3. Then the report is finished and saved.
4. User1 then logs out and then back into CRIS.
5. A new Report for an exam is loaded.
6. Dragon commands to 'Wake up', then 'Insert all titles'.
7. Dictate text into Report, and speak 'Next Exam' etc.

This will cause all the dictated text to be inserted at the top of the Report screen.

Resolution:

This was an issue around making the cursor move quicker when holding down the delete key. On logoff the supporting thread got closed down. But it did not get restarted when we restarted Dragon. Hence the Dragon Buffer thread was not getting updated correctly.



4.2 Augnito Microphone turns on when CRIS is idle for after a few seconds.

Jira Reference: [CRIS-7090](#)
Current status: *Open*
Affected version: *2.14.00*
Fix version:

When Augnito is running and left idle the Microphone turns on after a few seconds of CRIS being idle even at the main CRIS screen with no event open.



4.3 Augnito Microphone turns on when you select an option in the Scribtech menu.

Jira Reference: [CRIS-7091](#)
Current status: *Open*
Affected version: *2.14.00*
Fix version:

When selecting an option in the scribotech menu such as templates or preview dialog, the microphone switches on. (Green)



4.4 Insert a structured signature for reports sign-offs

Jira Reference: [CRIS-6928](#)

This issue has been implemented as described below but the database team need to rethink how this data is stored. So, this will not be fully implemented in 2.14.00.

As a user I can input the following data against my name , this is so I can create this data set to enter a structured signature at the end of a report.

Resolution:

Data is stored in hdsuse table in field signature_info varchar(512).

The data is stored in 1 string with the format...

a value|b value|c value|d value|e value|f label: f value|g label:g value|pattern

where a=name

b=professional status

c=grade

d=position

e=registration number

f=optional_1

g=optional_2

pattern=list of letters as above. i.e. ABC or for everything.. ABCDEFG

The optional items are stored as label:value within the stored string.

using 2 separators '|' and ':'.

information stored in hdsuse field signature_info varchar (512).

The pattern can affect what is shown in the report signature info.

Class SignatureInfoModel can take the string and provide the separate parts.

this class is loaded with the string from the database.

You can then call...

```
public String getSignatureString(String prefix,String separator,String postfix,String otherPattern){
```

which builds a set of lines based on the otherPattern string.

for each letter in the pattern, we add prefix<u>label</u>separator<u>value</u>postfix, for each item.

in the case of options A-E the label part is pre-set. for options F and G the optional label is extracted

TODO:Add a method to pull the required parts and format so we can add directly into a Report.

<i>Notes</i>:

Need to create a database update...

add column signature_info into table hdsuse as type varchar(512).



5 System Requirements and Supported Platforms



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