



Investigations Case Management - Release Notes

VERSION 2023

jade[™]

RELEASE NOTES – 2023

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UPGRADING YOUR SYSTEM

You can upgrade to ICM 2023 from any of the following prior versions:

- ICM 2022 (all builds)
 - ICM 2022
 - ICM 2022 SP1
 - ICM 2022 SP2
 - ICM 2022 SP3
 - ICM_2022_0_0_1
 - ICM_2022_0_0_2
 - ICM_2022_0_0_3
 - ICM_2022_0_0_4
 - ICM_2022_0_0_5
 - ICM_2022_0_0_6

- ICM 6.3.3 (all builds)

- ICM 6.3.2 (all builds)

- ICM 6.3.1 (all builds)
 - ICM 6.3.1
 - ICM 6.3.1.1
 - ICM 6.3.1.2
 - ICM 6.3.1.3
 - ICM 6.3.1.4
 - ICM 6.3.1.5

- ICM 6.3.0 (all builds)
 - ICM 6.3.0
 - ICM 6.3.0.1

PREREQUISITES

Before applying this upgrade you need to install **Microsoft C++ 2015-2022 Redistributable libraries** on the server, both 64-bit and 32-bit(x86):

[Download Microsoft Visual C++ 2015-2022 Redistributable Package \(x64\) 14.32.31332](#) (24 MB)

[Download Microsoft Visual C++ 2015-2022 Redistributable Package \(x86\) 14.32.31332](#) (13 MB)

Each client workstation requires the 32-bit (x86) redistributable library installed once the server upgrade has completed successfully.

CASES

a) Case Summary: New 'Include deleted cases' option

The Case Summary screen now has an option to include deleted cases.

The screenshot shows the 'Case Summary' interface. It features a 'Filters' section with the following elements:

- Case Type:** A dropdown menu currently set to '--- All ---'.
- Case officer:** A dropdown menu currently set to '--- All ---'.
- Case Status:** A dropdown menu currently set to '--- All ---'.
- Creation Date:** Two date pickers separated by 'to', both currently showing '//'.
- Include deleted cases:** A checkbox option located below the date pickers, which is highlighted with an orange border in the image.

b) Deleting a case note which has been reviewed and finalized

You can now delete a case note, which has been reviewed and finalized, without having to first un-finalize the case note.

c) Move a case note to another case

Case notes may now be moved from one case to another. You would typically move a case note if it had been added incorrectly to the wrong (source) case, and you now want to put it in the correct (target) case.

To move a case note:

1. Open the source case
2. Open the case note from the Contents tab
3. From the case note form, select **Move to another case** on the '>>' overflow menu
4. Follow the 2-step wizard:
 - i. Drag & drop the target case onto the *Move Case Note to Another Case* form. You can do this from Favourites, Recent etc.
Or, select the target case from the *Search* button
Click **Next**
 - ii. Check that the following details are correct:
 - Target Case
 - Case Note
 - Entities in case note
 Click **Finish** to complete the move

These steps are illustrated in the following screenshots:

Open the source case and select Contents tab. Highlight and open the case note you wish to move

Investigation File [URN: CASE/2009-1]

Details Contents Entities Access Comments (3) Threads Disclosure >>

Contents (Filtered)

Log Pinned Threads Tasks Property Reports Property Items

URN	Reported Date	Time	Key	Type	#	Title	Creator
GCN/1	09/07/2009	12:31			0	Team Briefing Conducted	Robert MASON (DEMO1)
GCN/2	15/07/2009	11:00			3	Executive Briefing Conducted	Robert MASON (DEMO1)
GCN/3	20/07/2009	11:00			0	UC Briefing Conducted	Robert MASON (DEMO1)
GCN/4	21/07/2009	12:30			3	Interview of Kevin Saunders	Robert MASON (DEMO1)
GCN/5	17/08/2009	12:26			2	Secrets Nightclub Layout - Meeting Room Identified	Ronan FITZGERALD (DEM)
GCN/6	09/09/2009	13:28			0	Watch Alert Notification - Peter Hawkin	Robert MASON (DEMO1)
GCN/18	21/11/2011	09:51			0	Test property item	Brian JOHNSTONE (BJ)
GCN/19	22/11/2011	14:32			18	Observed drug deal	Brian JOHNSTONE (BJ)
GCN/22	05/03/2012	10:00			2	Interview Zack (last name unknown)	Robert MASON (DEMO1)
GCN/21	14/03/2012	11:02			4	Possible tinny house discovered	Brian JOHNSTONE (BJ)

Details

Title: Interview of Kevin Saunders

Description: Saunders was interviewed by Det Sgt Robert Mason and Det Sgt Jon Piercey.

Summary:
Saunders stated that he was 'deeply' entrenched in the Comanchero Chapter and that he had recently raised concerns about illicit activities in which he was required to play a part. (He would not elaborate further on the activities). The altercation and subsequent threat/assault described in his Crime Stoppers Report occurred when he objected to carrying out a specified task. He was now fearful of Peter Hawkin and particularly of the Chapter President Richard Hawkin. Consequently, Mr Saunders indicated that he carried out tasks as required without further objection.

Saunders indicated that he had overheard Peter and Richard Hawkin discussing the brothel operation and that there was a need to get more Asian women in as prostitutes. There was mention that Richard would contact the Auckland Chapter to set up 'shipment'.

Actioned: 21/07/2009 12:30

Additional Details

Attributes

Save Delete Close

On the case note form, select **Move to another case**

General Case Note [URN: GCN/4]

Details Entities (3) Access Tasks (1) Threads (*) History Watches >>

Title: Interview of Kevin Saunders

Description: Saunders was interviewed by Det Sgt Robert Mason and Det Sgt Jon Piercey.

Summary:
Saunders stated that he was 'deeply' entrenched in the Comanchero Chapter and that he had recently raised concerns about illicit activities in which he was required to play a part. (He would not elaborate further on the activities). The altercation and subsequent threat/assault described in his Crime Stoppers Report occurred when he objected to carrying out a specified task. He was now fearful of Peter Hawkin and particularly of the Chapter President Richard Hawkin. Consequently, Mr Saunders indicated that he carried out tasks as required without further objection.

Saunders indicated that he had overheard Peter and Richard Hawkin discussing the brothel operation and that there was a need to get more Asian women in as prostitutes. There was mention that Richard would contact the Auckland Chapter to set up 'shipment'.

(Refer attached statement)

When Actioned: 21/07/2009 12:30

Classification: [Dropdown]

Draft:

Context Menu:

- Images
- Diagram
- New case note
- Go to case
- Move to another case** (highlighted with red arrow)
- Export report (Word template)
- Run entity-based Word report
- Export documents and images
- Quick print
- Bulk load documents and images
- File import
- Load from Word document
- View Word document

Copy as new Save Delete Close

Drag & drop the target case from Favourites / Recent, or use the Search button ... and click **Next**

Move Case Note To Another Case

Step 1: Drag and drop the target case from 'Favourites' or 'Recent' or use the 'Search' button to select the target case

Case officer: ANDERSON, Steve (SJA) +64 3 367 8412 Search

Title: Rob Mason Case

Description: **Victim Details**
 Name: Jess Stevenson
 DOB: 20 October 1989
 Address:
 Tel No: (H)
 Tel No: (M)
 Location of Incident: Hagley Park - North.

Details of Incident

A woman found dead next to the Netball courts in Hagley park in early hours of Saturday, 3 March 2012. The body was discovered by a couple of guys going for their morning run on Saturday around Hagley Park.

From the drivers licence it was concluded that the woman is Jess Stevenson and she is 22 years old . The two guys out for a run were Josh Anderson and Carl Smith. They are close friends and they claim that they regularly go for a run around Hagley Park.

There were no other witness at the scene.
 Ambulance arrived soon after I took the statement.

There are no records of the victim going missing. The family has been notified.

16214 Back Next

Check the case and case note details, then click **Finish** to complete the move

Move Case Note To Another Case

Step 2: Confirm the target case and the case note being moved are correct

Target Case: Rob Mason Case

Victim Details
 Name: Jess Stevenson
 DOB: 20 October 1989
 Address:
 Tel No: (H)
 Tel No: (M)
 Location of Incident: Hagley Park - North.

Case Note: Interview of Kevin Saunders

Saunders was interviewed by Det Sgt Robert Mason and Det Sgt Jon Piercey.

Summary:
 Saunders stated that he was 'deeply' entrenched in the Comanchero Chapter and that he had recently raised concerns about illicit activities in which he was required to play a part. (he would not elaborate further on the activities). The altercation and subsequent threat/assault described in his Crime Stoppers Report occurred when he objected to carrying out a specified task. He was now fearful of Peter Hawkin and particularly of the Chapter President Richard Hawkin. Consequently, Mr Saunders indicated that he carried out tasks as required without further objection.
 Saunders indicated that he had overheard Peter and Richard Hawkin discussing the brothel operation and that there was a need to get more Asian women

Entities in case note

URN	Entity	Relationship	Deletion reason (if deleted)
PER-15	SAUNDERS, Kevin Two	Referenced In	
STMT/1	Statement of Kevin Saunders - 21072009	Referenced In	
9	777, directly added 777, NZL	mentioned in	

16214 Back Finish

Finally, check the case note in the target case

Murder Inquiry 3 Rob Mason Case (default business unit, default business region)

Murder Inquiry [URN: 3] Details Contents Entities Access Comments (0) Threads Disclosure >>

Contents

Log Pinned Threads Tasks

URN	Reported Date	Time	Key	Type	#	Title	Creator	Status
GCN/4	21/07/2009	12:30			3	Interview of Kevin Saunders	Robert MASON (DEMO1)	Review
Task 20	02/02/2012	11:23	T ADHOC		0	task test (Cancelled)	Carol ZHANG (CAROL)	Cancelled
GCN/28	03/03/2012	07:00			11	Body of a woman found in Hagley Park who appears to be in her late 20s	Bo LIU (BO)	Review
GCN/29	03/03/2012	11:30			0	Statement from Josh Anderson and Carl Smith	Bo LIU (BO)	Review
1	09/03/2012	15:12			2	Witness Statement From Jono Gibbs	Robert MASON (DEMO1)	Review
Task 43	09/03/2012	15:21	T ADHOC		0	Get more registration info on XYZ737 from NZTA	Robert MASON (DEMO1)	Complete
TR/43	09/03/2012	15:22			4	Final - Resolved: test test 1	Bo LIU (BO)	Review
2	09/03/2012	15:50			2	witness statement	Robert MASON (DEMO1)	Review
Task 44	09/03/2012	15:53	T ADHOC		0	Get more registration info on XYZ737 from NZTA	Robert MASON (DEMO1)	Complete
TR/44	09/03/2012	15:55			4	Final - Resolved: info info	Bo LIU (BO)	Review
4	12/03/2012	14:16			3	Witness Statement	Robert MASON (DEMO1)	Review
Task 45	12/03/2012	14:59	T ADHOC		0	Get stuff done	Robert MASON (DEMO1)	Complete
TR/45	12/03/2012	15:01			0	Final - Resolved: All done	Paul STOKES (DEMO2)	Review

Details

Title

Description

Additional Details

Save Delete Close

d) Applying case closure access to a case note

On a case note, the **Apply closure security** checkbox has been moved from the **Details** tab to the **Access** tab (a more appropriate location), and the text annotation is now more meaningful.

Research / Analysis Activity [URN: 5] Details Entities (3) Access Tasks (3)

Details

Title

Description

Attributes

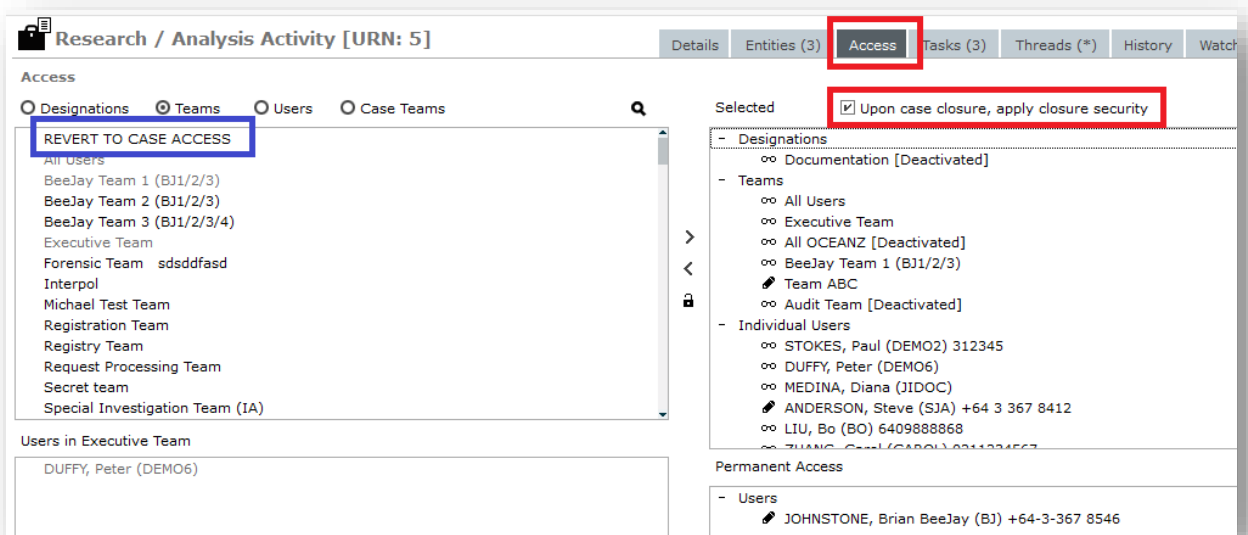
Selected

Apply closure security **This has been moved to the Access tab**

When Actioned

Classification

Draft



Notes

1. This textbox is now only visible if the case note access has been modified from the access list inherited from the parent case
2. If you've modified the case note access, and you now wish to revert to inheriting access from the parent case, select REVERT TO CASE ACCESS. The 'apply case closure' checkbox will then disappear (since when the case gets closed all case notes that inherit access from the parent case will automatically have case closure access applied)

TASKING

a) Recipient Changes

An ICM user may now be the recipient of a task, both

1. As an individual, and
2. As a member of a team

This resolves the issue whereby a user may have received an Information-Only task, followed by the same task as a member of a team (Action recipient).

Task (General Ad Hoc) [URN: Task 2051]

Details
Submission

Submission

Alert for Results Forwarded Rejected

Review Not required Required <No reviewer selected> +

Authorisation Not required Required Self authorise <No authoriser selected> +

Result template Clear

Recipients

Date/Time	Name	Status	Action Officer
28/03/2023 11:44	Peter DUFFY (DEMO6)	Unopened	
28/03/2023 11:44	Executive Team	Unopened	

In this example **Peter DUFFY** is a member of **Executive Team**

His task list is shown below:

Task List

Assigned to me
Authorisations/Reviews

Assigned to me Current filter = Unopened

Flag	URN	Priority	Recipient status	Reminder	Completion date (Expected)	Completion date (Actual)	Teams/Designations/Case
	Task 2051	Low	Unopened				
	Task 2051	Low	Unopened				Executive Team

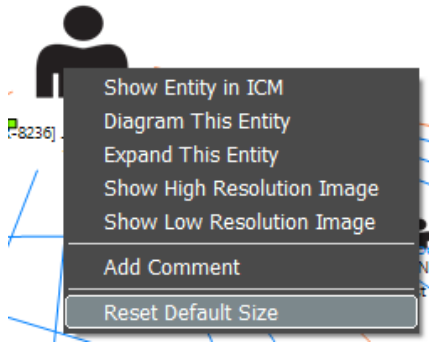
Legend ×

- Action task
- Information only task

DIAGRAMMING

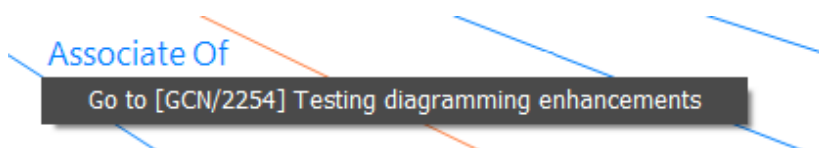
a) Reset diagram node to default size

If you have resized a diagram node, the right-click context menu now allows you to quickly set it back to the default size again.

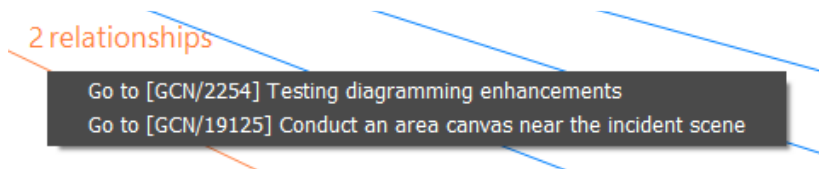


b) *Go to <source entity>* added to relationship context menu

An option to go to the source entity where the relationship between two entities was created has been added to the context menu for a relationship line in the diagram.

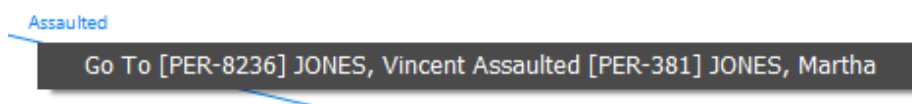


If there are multiple relationships established in different source entities, there will be multiple “Go to <source entity>” entries in the context menu.

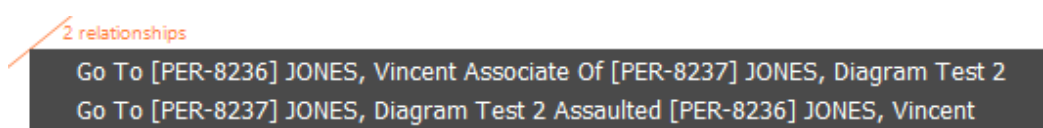


c) *Go to <relationship>* added to relationship context menu

When viewing the diagram for a source entity, an option to go to the relationship has been added to the context menu for a relationship line in the diagram. When clicked, it swaps context to the *Entities* tab and selects that relationship in the relationships table .

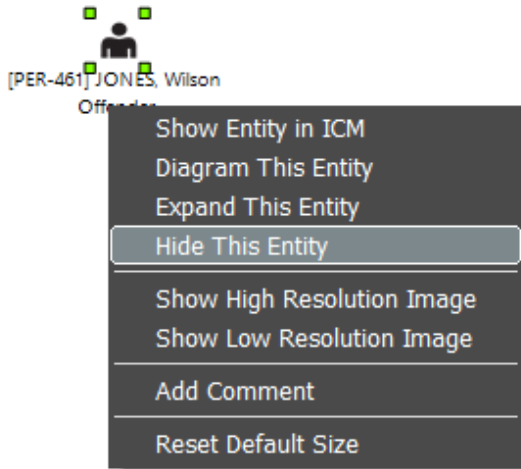


If there are multiple relationships established in that source entity, there will be multiple “Go to <relationship>” entries in the context menu.

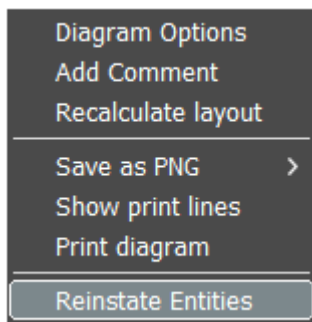


d) Hide entity in floating diagram

When viewing a floating diagram, the context menu when you right click on an entity in the diagram now has a *Hide this entity* option. This will hide that entity and hide all relationships which have an end point with the entity being hidden.



The context menu when right clicking a blank area of the diagram has a *Reinstate entities* option which will display all entities and relationships which have previously been hidden.



e) Don't ask if new diagram should be saved

If a user displays the diagram tab for an entity which has no saved diagrams, and the user does not make any changes to that initial diagram, it will no longer ask the user if they wish to save the changes to the diagram.

ADMINISTRATION

a) Password complexity enhancement

You may now enforce password usage of all the following character sets:

- Lower case
- Upper case
- Numbers
- Special characters

To implement this there is a new checkbox in **System Settings / Security**

The screenshot shows the 'System Settings' interface with the 'Security' tab selected. Under 'Application Authentication', the 'Enforce full complexity passwords' checkbox is checked and highlighted with a red box. The description for this option is 'Requires characters from all four of: Lower Case|Upper Case|Numbers|Special Characters'. Other settings include 'Minimum password length' (6), 'Maximum password length' (12), 'Password expires in (days)' (365), and 'Remember 'nn' passwords' (5).

Setting	Value	Description
Minimum password length	6	
Maximum password length	12	
Password expires in (days)	365	
Remember 'nn' passwords	5	
Only allow one password reset per day	<input checked="" type="checkbox"/>	
Allow direct logon from Windows™	<input checked="" type="checkbox"/>	
Enforce partial complexity passwords	<input type="checkbox"/>	Requires characters from at least three of: Lower Case Upper Case Numbers Special Characters
Enforce full complexity passwords	<input checked="" type="checkbox"/>	Requires characters from all four of: Lower Case Upper Case Numbers Special Characters
User Logons		
Number of sessions allowed	10	
Number of invalid attempts	3	

b) Reset password for deactivated user

Reset password for another user now allows you to search for, and select, a deactivated user.

c) Filtering on Edit Attributes screen

On the *Edit Attributes* screen, after you have selected an entity type, there is a new *Search field* to quickly find attribute types which contain the *Search field* text. After entering *Search field* text, click the forwards search button (▼) or backwards search button (▲) to find the next attribute type which contains the *Search field* text. If the search reaches the end/start of the list of attribute types, it will continue the search from the beginning/end of the list.

Entity Attributes

Select and enter details below

Select Type Search

- Identifying Marks
 - Body Location
 - Type
 - Mark description
 - Shoe Size
 - Eyewear
 - Drivers Licence Number

Note

While focus is on the *Search* field, the keyboard shortcut *Alt+DownArrow* will search forwards through the list of attribute types and the keyboard shortcut *Alt+UpArrow* will search backwards through the list of attribute types.

d) Conditional attribute maintenance

When maintaining *is one of* or *is not one of* conditional attributes, we've made it easier to select multiple values by adding a selection checkbox to each entry in the list. Previously you had to hold down the CTRL key to select multiple values.

Maintain Condition ✕

Attribute selected

Operator

Value(s)

Select	Description
<input type="checkbox"/>	East Island
<input type="checkbox"/>	Middle Island
<input checked="" type="checkbox"/>	North Island
<input checked="" type="checkbox"/>	South Island
<input type="checkbox"/>	West Island

e) Entity Types screen additional keyboard support

On the Entity Types screen, when focus is on the filter textboxes the following additional keyboard shortcuts are now available.

When focus is on the filter field for available entity types:

- i. *Up/DownArrow* moves the selection in the *Available* list
- ii. *Alt+RightArrow* does the same action as clicking the *Right Arrow button* between the lists, assuming it's enabled.

When focus is on the filter field for selected entity types:

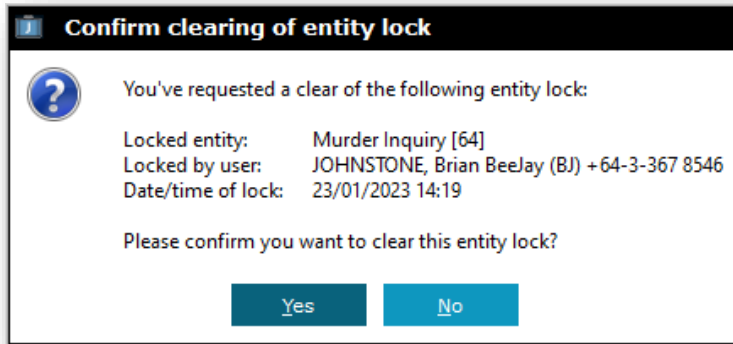
- i. *Up/DownArrow* moves the selection in the *Selected* list
- ii. *Alt+LeftArrow* does the same action as clicking the *Left Arrow button* between the lists, assuming it's enabled.

f) New view locked entities screen

If a user is editing an entity and then kills their ICM application with Windows Task Manager, or they lose their connection to the server, it could leave that entity soft-locked in the database. If another user then tries to edit the same entity, they'll get advised another user is currently editing that entity. A new screen has been added for an Administrator to view locked entities, which user has it locked, the date/time they obtained the lock and whether or not that user is currently logged onto the system. The new screen is accessed via *Admin -> System -> View Locked Entities*. The Administrator can use the *Clear Lock* option on the right click context menu to release the lock, as per the following screen shot:

Locked Entities			
Details			
Entity	User	Date/Time	Is user logged on?
Murder Inquiry [64]	JOHNSTONE, Brian BeeJay (BJ) +64-3-367 8546	23/01/2023 14:19	No
Investigative [2]	JOHNSTONE, BeeJay (BJ1) (BJ1)	26/01/2023 14:39	Yes
BJ Info Report [68]	JOHNSTONE, BeeJay (BJ3) (BJ3)	26/01/2023 14:43	Yes
Christina's Person [CMS/2023/8]	JOHNSTONE, BeeJay (BJ3) (BJ3)	26/01/2023 14:44	Yes

The system will display a confirmation screen with the details of the lock which will be cleared. They can use this to confirm which lock they are clearing:



g) Code maintenance alphabetical sorting now aware of legislation style numbering

When maintaining code tables, alphabetical sorting is now aware of legislation style numbering. This means that point 1.10 will now come after point 1.9 rather than between 1.1 and 1.2 as per the following screen shots showing the old sorting behavior on the left and the new sorting behavior on the right:

Code Table Maintenance	
Select and enter details below	Quick filter
Code Table Type	Code Table E
Act/Legislation	1.1
Act/Legislation	1.10
Act/Legislation	1.11
Act/Legislation	1.12
Act/Legislation	1.13
Act/Legislation	1.14
Act/Legislation	1.15
Act/Legislation	1.16
Act/Legislation	1.17
Act/Legislation	1.18
Act/Legislation	1.19
Act/Legislation	1.2
Act/Legislation	1.20
Act/Legislation	1.21
Act/Legislation	1.3
Act/Legislation	1.4
Act/Legislation	1.5
Act/Legislation	1.6
Act/Legislation	1.7
Act/Legislation	1.8
Act/Legislation	1.9

Code Table Maintenance	
Select and enter details below	Quick filter
Code Table Type	Code Table E
Act/Legislation	1.1
Act/Legislation	1.2
Act/Legislation	1.3
Act/Legislation	1.4
Act/Legislation	1.5
Act/Legislation	1.6
Act/Legislation	1.7
Act/Legislation	1.8
Act/Legislation	1.9
Act/Legislation	1.10
Act/Legislation	1.11
Act/Legislation	1.12
Act/Legislation	1.13
Act/Legislation	1.14
Act/Legislation	1.15
Act/Legislation	1.16
Act/Legislation	1.17
Act/Legislation	1.18
Act/Legislation	1.19
Act/Legislation	1.20
Act/Legislation	1.21

GENERAL

a) Quick way to view audit record from the *Update history* tab

When viewing the *Update history* tab for an entity, if you have permission to view entity audits you can now double click on an entry in the *Update history* table to view the full audit record for that update.

For example, in the following screenshot you can see there have been two updates to this case note:

General Case Note [URN: GCN/19147]					
Details	Entities (0)	Access	Tasks (0)	Threads (0)	History
History					
Designation access	Team access	User access	Case team access	Update history	
Date	Time	User			
30/09/2022	16:10:58	JOHNSTONE, Brian BeeJay (BJ) +64-3-367 8546			
30/09/2022	16:10:40	JOHNSTONE, Brian BeeJay (BJ) +64-3-367 8546			

Double clicking on the top entry in the table reveals the full audit details for the changes:

View Audit Entry		
Audit entry details		
Audited on	30/09/2022 16:10	
Entity	General Case Note	[GCN/19147] Quite a different title.
Action	Update	User JOHNSTONE, Brian BeeJay (BJ) +64-3-367 8546
Workstation	CNWB11B	
Business unit		
Business region		
Details	Update:Case note to show history of changes made	
Audit entry properties		
Property	Value before	Value after
Modified at	30 September 2022, 03:10:40 (UTC)	30 September 2022, 03:10:58 (UTC)
Modified by		JOHNSTONE, Brian BeeJay (BJ) +64-3-367 8546
Title	Case note to show history of changes made	Quite a different title.
Description	A sample case note to show the history of changes made to the case note.	A sample case note to show the history of changes made to the case note. More details in the descriptions.

b) Exporting an Incident or Information report as JSON

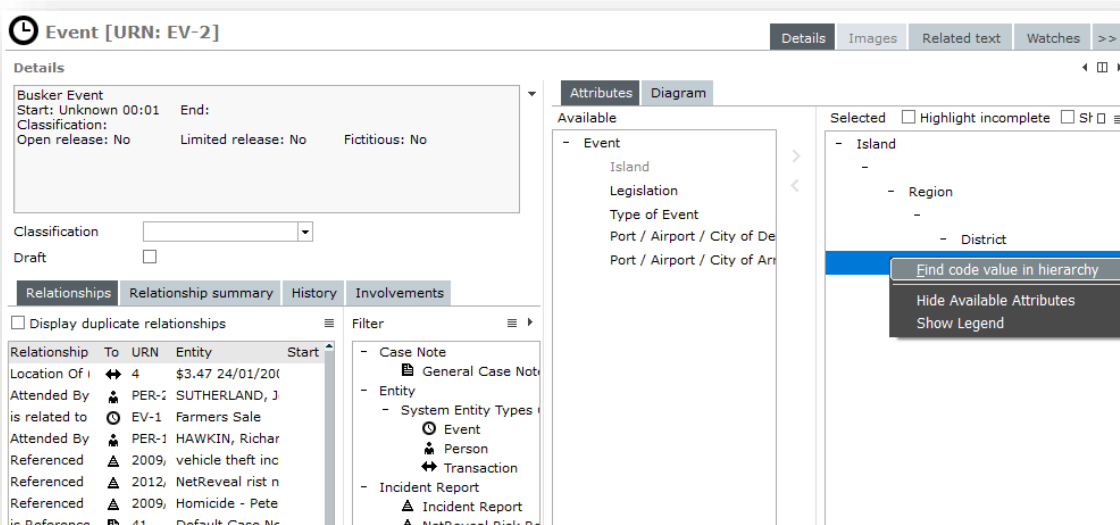
When viewing an Incident or Information report the '>>' overflow menu now has an option to export the Incident or Information report as JSON, including all the entities contained within that Incident or Information report.

c) Current Users screen

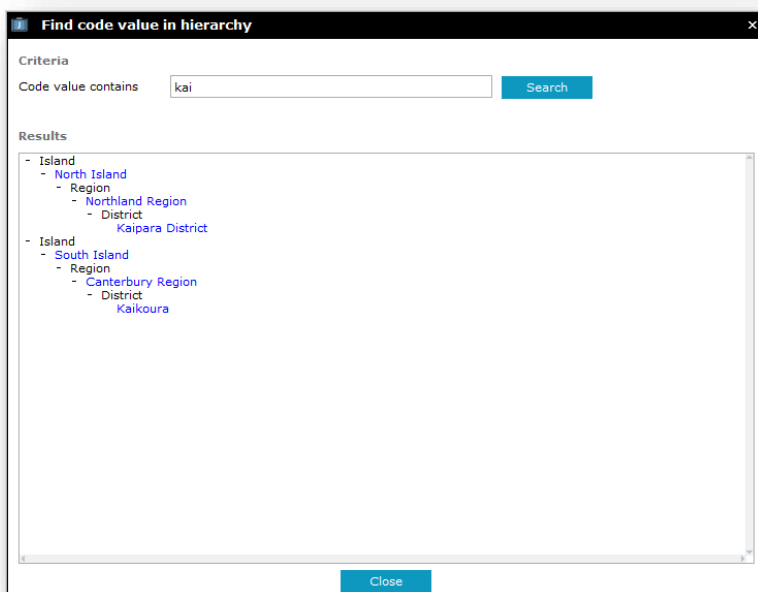
The *Current Users* screen has been enhanced to include a count of the number of users currently logged on to the system.

d) Find code value in hierarchy

For multi-level conditional attributes, users may not know what they need to select for the 1st and 2nd level attribute values in order for the 3rd level attribute they want to select to become available. For example, in the following screenshot they may know that the *District* they want to select is *Kaikoura*, but they don't know what to select for the *Island* and *Region* attributes in order for *Kaikoura* to become available in the *District* attribute. A new *Find code table in hierarchy* option has been added to the right click context menu, as per the following screen shot:



This will open a new screen where you can search for a match, or partial match, within that attribute hierarchy. In the following screen shot, a search for 'kai' has been completed. This shows selecting *South Island* and then *Canterbury Region* will make the value *Kaikoura* available for the *District* attribute:



Resolved Issues

We've resolved the following issues in the ICM 2023 release:

- ICM-423
Corrected an issue where using the *Refresh Diagram* option on the context menu for a diagram would sometimes put all the diagram nodes in a straight line.
- ICM-1255, ICM-1356
The **Bulk Capabilities** utility (Admin → Security → Bulk Capabilities) was previously not *Appending* or *Revoking* user/team capabilities for nominated cases. This has now been rectified.
- ICM-1287
Corrected an issue which could result in a *1413 index out of bounds* error when the first word in a block of text having the spelling checked was not in the spell check dictionary.
- ICM-1288
Corrected an issue which could result in a 1090 null object reference error if one of the pre-supplied entity types has no entity category assigned, has miscellaneous entity types which extend that type, and that pre-supplied entity type has been deselected for your agency.
- ICM-1294
Corrected an issue whereby deleting one of the diagrams for an entity, without making any other changes, would not enable the *Save* button to allow the delete to be processed. Diagrams are now immediately deleted, after requesting user confirmation.
- ICM-1297
For some ICM configurations, the button for finalizing the review of a case note was visible when creating a new case note. This anomaly has been corrected.
- ICM-1298
Corrected a timing issue which could result in a system error when Microsoft Word has a file in use after printing a report. Users will now get advised that the file couldn't be deleted (so they can delete the file once it is out of use).
- ICM-1323
Corrected an issue which could result in an error 4 Object not found error using *Ctrl+S* to save an entity while focus is on the data entry popup for a user defined attribute.
- ICM-1325
Corrected an issue with the *Export to Excel* context menu on the *User Maintenance* screen. In previous releases this option would only work when focus was currently on the table of existing users.
- ICM-1336
Corrected an issue which could result in 4031 exceptions opening the screen to show current users on the system. The 4031 would only occur if there were 1 or more users who had started the application but were still on the logon screen.

- ICM-1337
Corrected an issue which could result in a 1309 object already added exception when displaying additional details on the search results screen. This issue required a specific combination of soft attributes.
Note: Fix was also shipped in ICM 2022 Hotfix 1.
- ICM-1340
Corrected an issue that resulted in a 1201 stack overflow error. This occurred when using the *File Import* screen and attempting to load a malformed, incorrectly formatted, file.
- ICM-1341
Improved handling of a spell check issue whereby the user gets a Windows error when attempting to save a case note after pasting an email into the description field. This occurs specifically when the email contains certain attachments such as PDF documents and Excel spreadsheets. The user now gets a message dialog explaining the issue, with suggestions to resolve it.
- ICM-1342
Corrected an issue which could result in a 1090 null object reference exception when performing a case export as JSON. The issue would occur when there were 1 or more Event or Offence entities which had no end date specified.
- ICM-1345
Corrected an issue that could result in a 14011 exception when removing an obsolete permission from a role.
- ICM-1346
Improved handling of a 14089 exception which occurred following high volume diagramming. The user now gets a message dialog advising their workstation is low on Windows resources and may require a reboot to recover these.
- ICM-1349
Corrected an issue that could result in an error 4 exception if an entity in the *Favourites* or *Recent* panel had recently been merged into another entity (such that it no longer exists).
- ICM-1350
We've improved the logic for ensuring the main ICM screen is visible when logging on from a computer which has only a single monitor, or a smaller desktop resolution, than the computer which was last used to logon to ICM.
- ICM-1351, ICM-1382
Corrected an issue which could result in a 14050 invalid table column exception when scrolling a table horizontally to the far right and then attempting to click on a row.
- ICM-1359
Previously, if refreshing table contents reduced the number of rows in the table, and the current row was now beyond the end of the rows actually in the table, this could cause a 14051 invalid table row exception. This has been fixed.
- ICM-1362
For source entities only the first 80 characters of the title were being keyworded. We now keyword the full

title for all source entities. Source entities include cases, case notes, tasks, etc.

- ICM-1369
A category search will no longer include results for entity types within a category that has been deselected by the agency.
- ICM-1371
Corrected an issue where the specified default closed case security access was not always being correctly applied when closing a case of that type.
- ICM-1372
Corrected an issue whereby a document entity with a very long title would cause an unhandled exception
- ICM-1377
Added some retry logic around the cleanup of temporary files to prevent file exception errors being displayed to users.
- ICM-1380
Added additional delay and retry around logic to render Google Maps to allow for slower computers and slower internet connections.
- ICM-1381
The Task Summary now includes all tasks, irrespective of whether they have a case context or not. Previously, only tasks within cases were being displayed
- ICM-1385
In prior versions of ICM, Task Lists would display deleted tasks as 'Outstanding', simply because task recipients were not being updated as deleted/cancelled. This has been rectified so that deleted/cancelled tasks are not identified as outstanding.
- ICM-1386
The spell check now handles capitalized acronyms correctly (upper case letters are preserved as uppercase)
- ICM-1393
Corrected an issue whereby you could attempt to merge two entities of different types, resulting in an unhandled exception (1086 Class of object is invalid in this context)