NMVS Portal User Guide for Local Organisations

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Audience: Pharmacies, Wholesalers, Hospitals via NMVOs

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Revision History

* Complete Revision History can be found within the appendix.

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Document Approval

Name	Role/ Title	Signature	Date	Meaning of Signature
David Joyce	Author	*Signature is documented in the PDF sign-off sheet for this presentation.*		I am signing to certify this document has been produced following the prescribed process and that it meets technical requirements.
Steven Sloggett	Development Lead	*Signature is documented in the PDF sign-off sheet for this presentation.*		I am approving this document to clarify that it meets technical requirements.
Rizwan Rehman	Project Manager	*Signature is documented in the PDF sign-off sheet for this presentation.*		I am approving this document to certify that it meets business requirements.
Matt Stellmacher	Senior CSV Consultant	*Signature is documented in the PDF sign-off sheet for this presentation.*		I am approving this document to certify that it meets quality and compliance requirements.

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Portal User Guide for Local Organisations

Introduction

This User Guide provides guidance to Local Organisations (i.e. Pharmacies, Wholesalers, and Hospitals) on the usage of the National Medicines Verification System.

The examples used in the slides may present data specific to a Wholesaler account, or a Pharmacy account, but all processes and features are equally applicable to the above organisation types.

Prerequisites to the Registration Process

The following are required prior to a Local Organisation beginning the registration process.

1.The NMVO has agreed with the Local Organisation the Prime Contact and a set of Known Facts.

2.The NMVO has sent the Prime Contact of the Local Organisation a registration email.

Terminology

National Medicines Verification Organisation (NMVO)

The organisation set up by national stakeholders to manage the National System and medicine verification for that country

National Medicines Verification System (NMVS)

A system in the European Medicines Verification landscape that serves as the verification platform for one country. Local Organisations check a product's authenticity using a connection to this system

Local Organisations

The organisations required to use the NMVS to check a product's authenticity

Prime Contact

The first point of contact in the Local Organisation for the registration process

Known Facts

A pre-agreed set of challenge questions and answers used to verify identity during the registration process and known only to the NMVO and the NCA

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Introduction to Users and Clients

Users

- A User of the system is a physical user, i.e. a person.
- A User interacts with the NMVS through the NMVS Administration Portal and the NMVS Emergency Verification Portal.
- A User requires an NMVS account to login to the Administration Portal and Emergency Verification Portal.
- A User account is associated to one or more User Roles that defines the permissions available to the user.
- User Roles are defined through the NMVS Administration Portal. User Roles may be provided the full permissions set, or a reduced permissions set.

Clients/Client Systems

- A Client of the NMVS is another IT system (i.e. a Wholesaler/Pharmacy/Hospital IT System).
- The Client System interacts with the NMVS through a technical interface and is issued with Client System Credentials.
- The Client System Credentials used by Client Systems always provide the Client System with a Role that has the full permissions set according to their organisation type (e.g. an organisation of type Pharmacy does not have the permission to decommission a pack as Exported, Stolen, Free Sample or Locked, while an organisation of type Wholesaler does have it).
- It is not possible to modify the permission set for a Client System through the Portal.

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Logging in as the local organisation user

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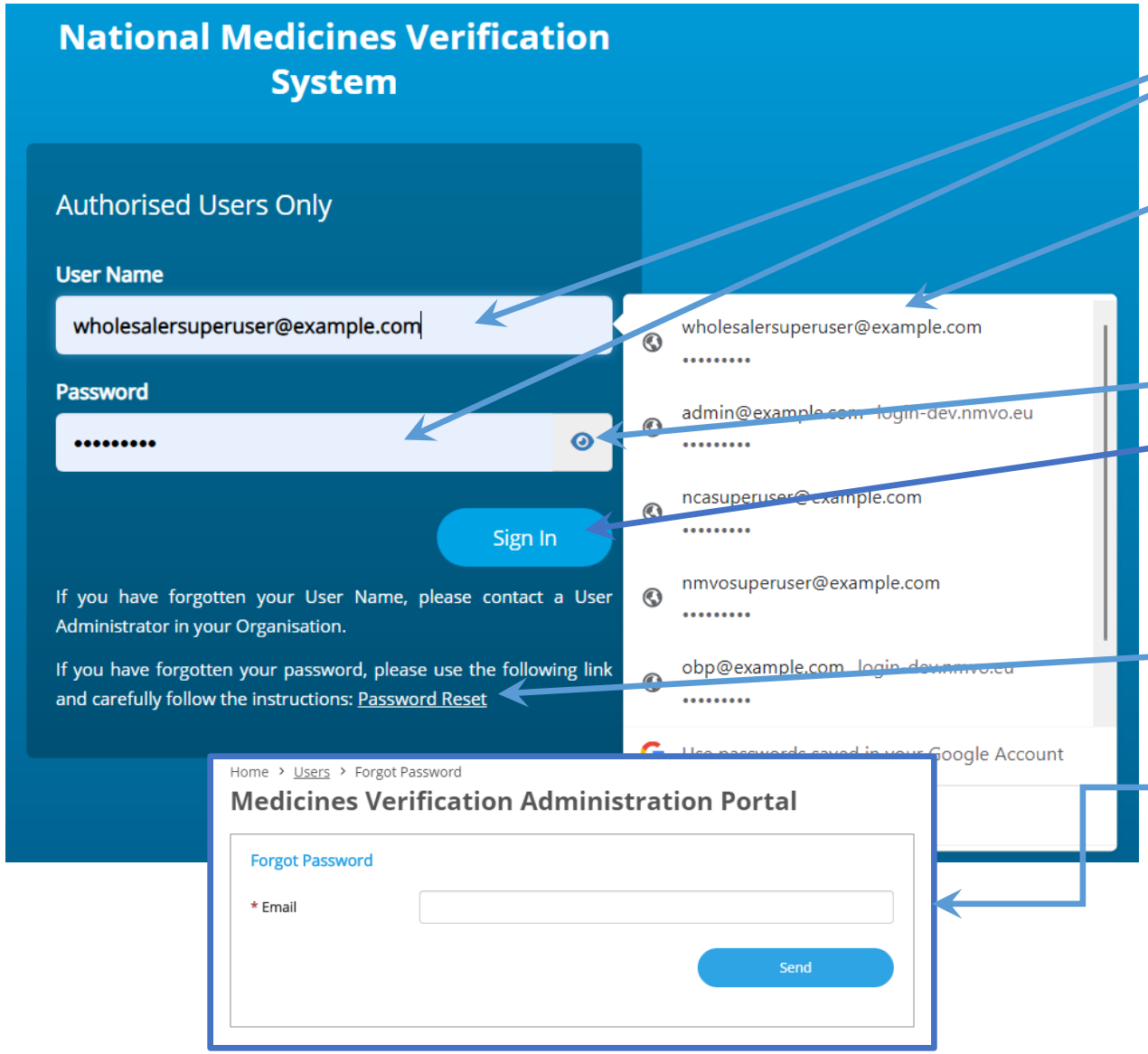
User Account - Login to the Portal



1. Enter User Name and password in the login screen (the user name is the email address).
2. Auto-complete feature is turned on/off depending on the market. Please contact your NMVO for more details.
   Note: The auto-complete feature supports strong passwords. Disabling this feature may lead to weaker passwords and a potential compromise of an account.
3. Show password button can be clicked to display password as text instead of dots.
4. Click 'Sign In'.
5. After clicking 'Sign In' the Authorisation Code challenge screen will be presented.
6. If the User has forgotten their password, or wants to reset it, then select the 'Password Reset' link.
7. User can enter the 'User Name' i.e. relevant email address and select 'Send'. An email will be sent to the specified email address to reset their password, if the email is registered as a user of the system.

User Account - Two Factor Authentication

Terminology

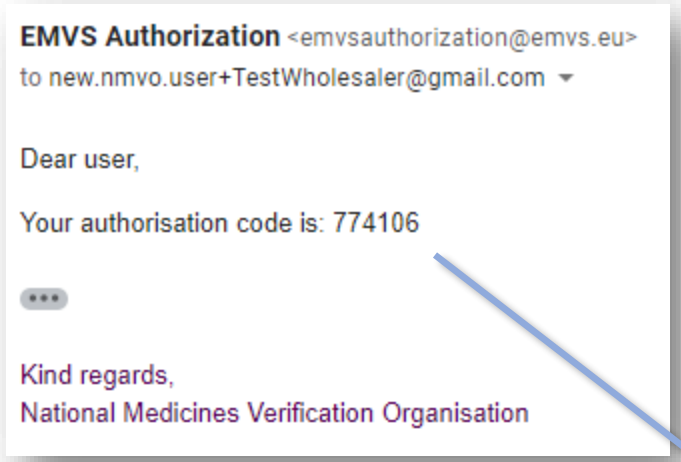
Two Factor Authentication

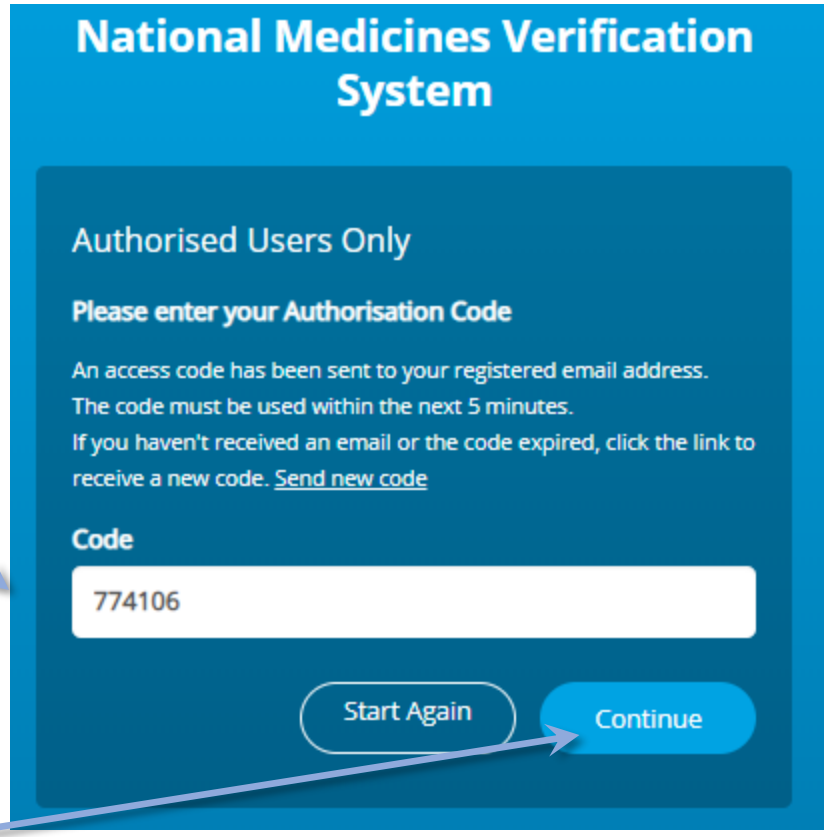
For improved security of the NMVS portal, Two Factor Authentication is employed in the login process.

Two Factor Authentication requires an Authorisation Code to be entered in addition to the user password.

The Authorisation Code is sent to the email address of the registered user.

The Two Factor Authentication step applies to all login attempts for all users.





1. **Enter the Authorisation Code from the email into the Code field.**
2. **Note that the Authorisation Code expires within 5 minutes of being sent to the registered user's email address.**
3. **Click 'Continue' to progress to the Portal.**
4. **To return to the Login screen, click 'Start Again'.**

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User Account - Home Screen

Upon successful login to the portal, the *Home* screen is presented.

The *Users* page provides access to the User Management features.

The *Locations* page provides access to *Location Management* features.

The *Reports* page provides access to *Report Request & Management* features.

The *User Roles* page allows the user to manage the authorisation roles of the organisation.

The *Client Roles* page provides access to *Location Management* features.

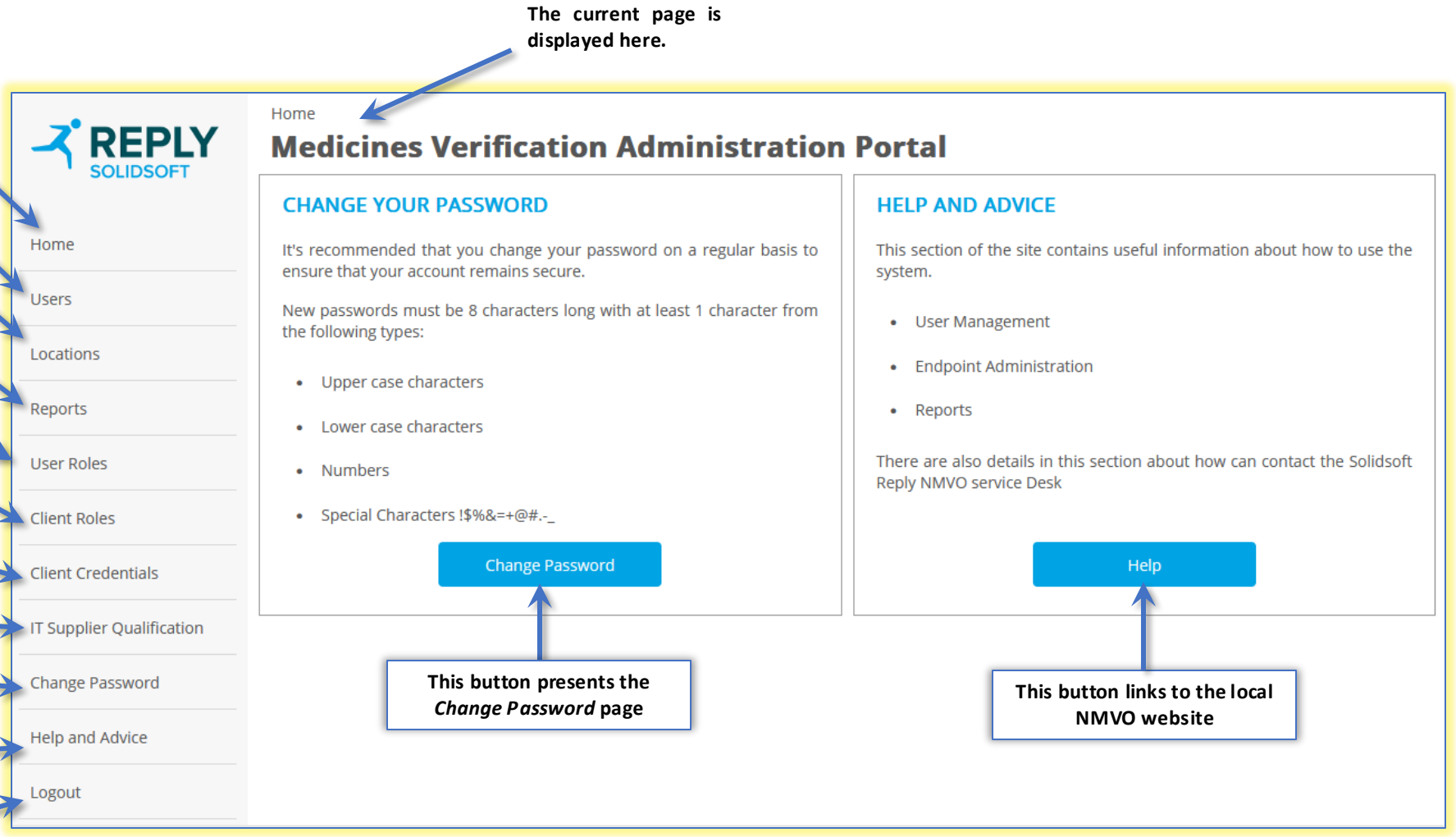
The *Client Credentials* page allows management of organisational credentials and their secrets

IT Supplier Qualification page to manage Test Books (subject to permissions)

The *Change Password* page allows the password to be changed.

The *Help and Advice* page points to the local NMVO website.

Clicking 'Logout' will logout the current user.



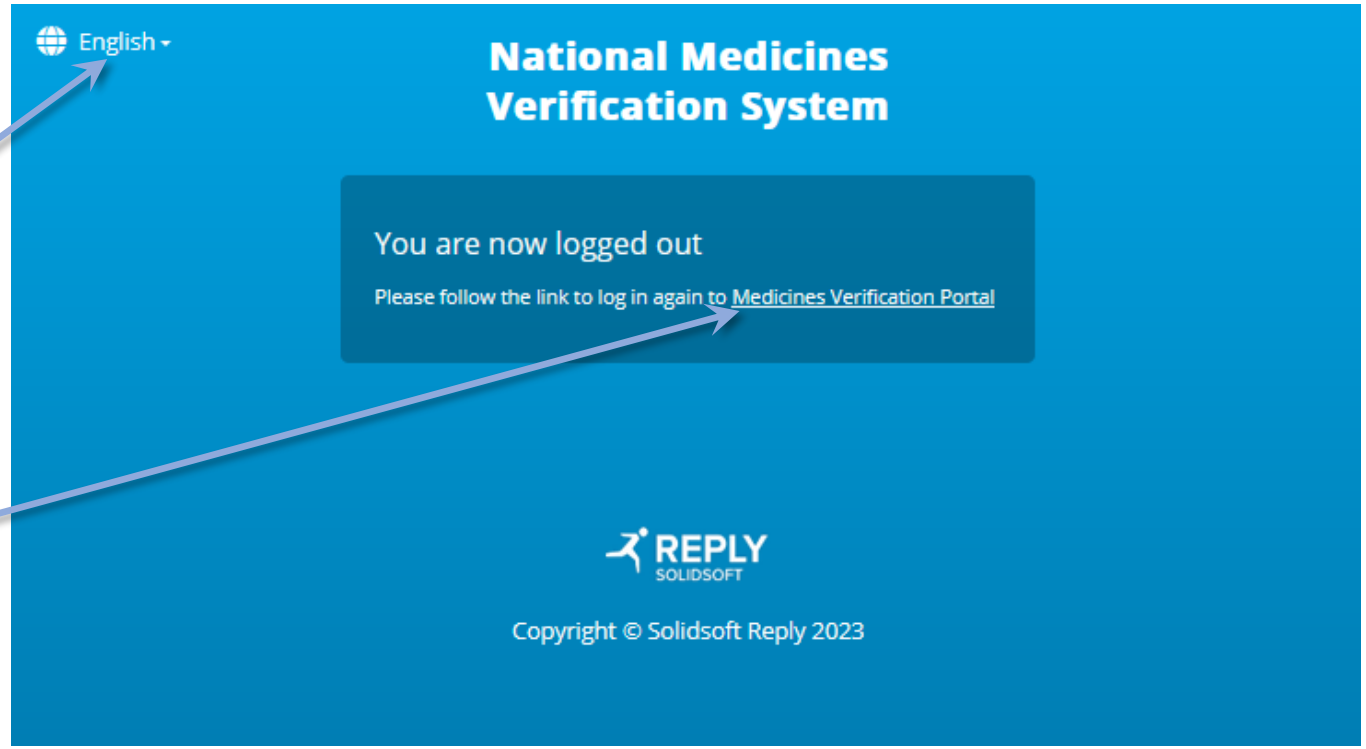
NOTE: The Users, Locations, Client Roles, User Roles, and Client Credentials entries of the menu will be available to the user only if their role has the permission to manage users, locations or authorisation roles.

Logout Screen

This is the logout screen. It will be presented to the user on logging out of the system.

Note the language dropdown (defaulted to “English”). This dropdown is also present on the login screen and allows the user to specify in which language they prefer to use the system.

To return to the login screen, click the link indicated - “Medicines Verification Portal”.



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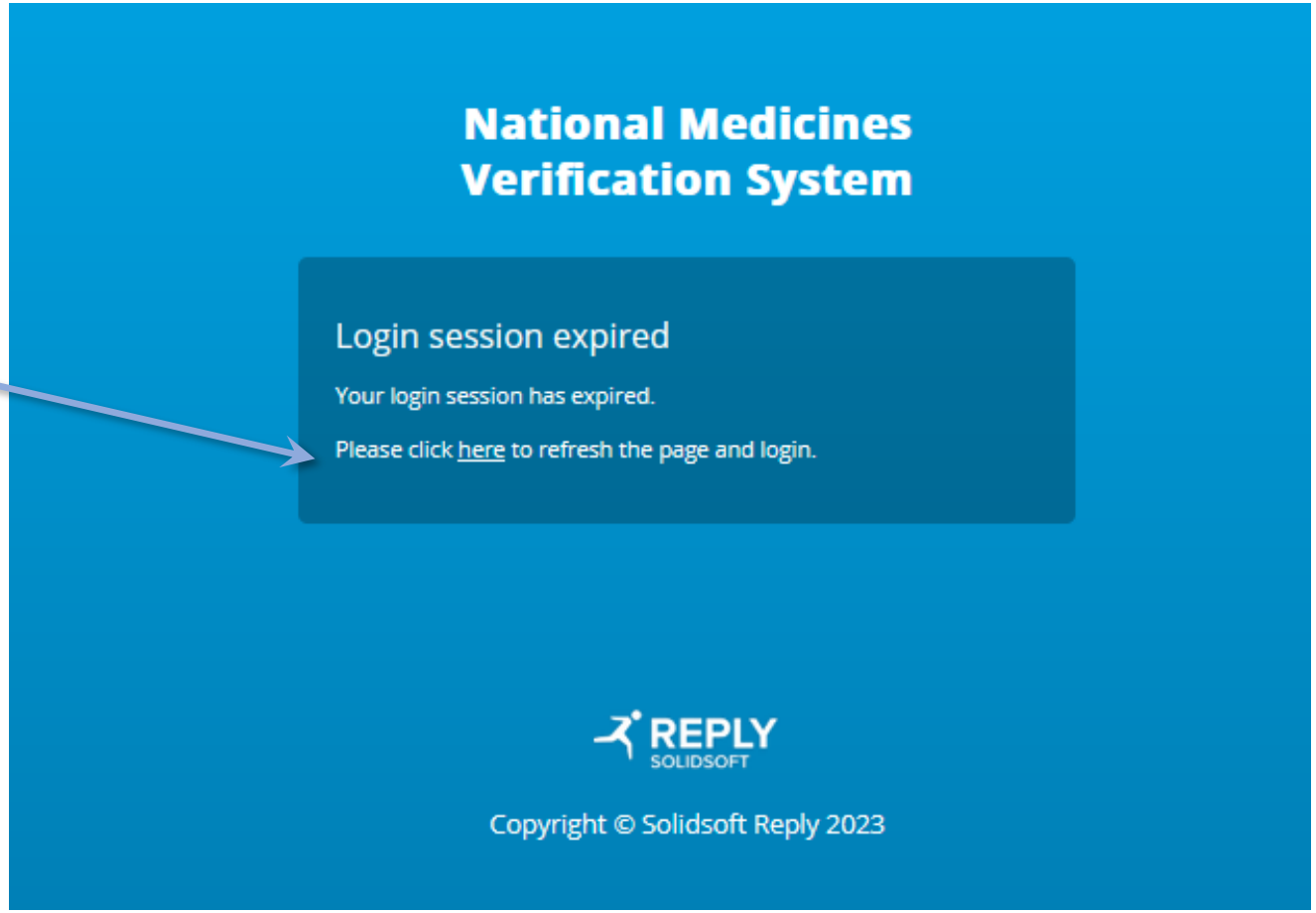
Timeout Session Screen

This is the screen that is presented when there has been no activity, by the currently logged in user, for a defined (configurable) period of time, usually 30 minutes.

By clicking on the link indicated and re-logging in, the user will be returned to the page and part of the system that they were on when the session expired.



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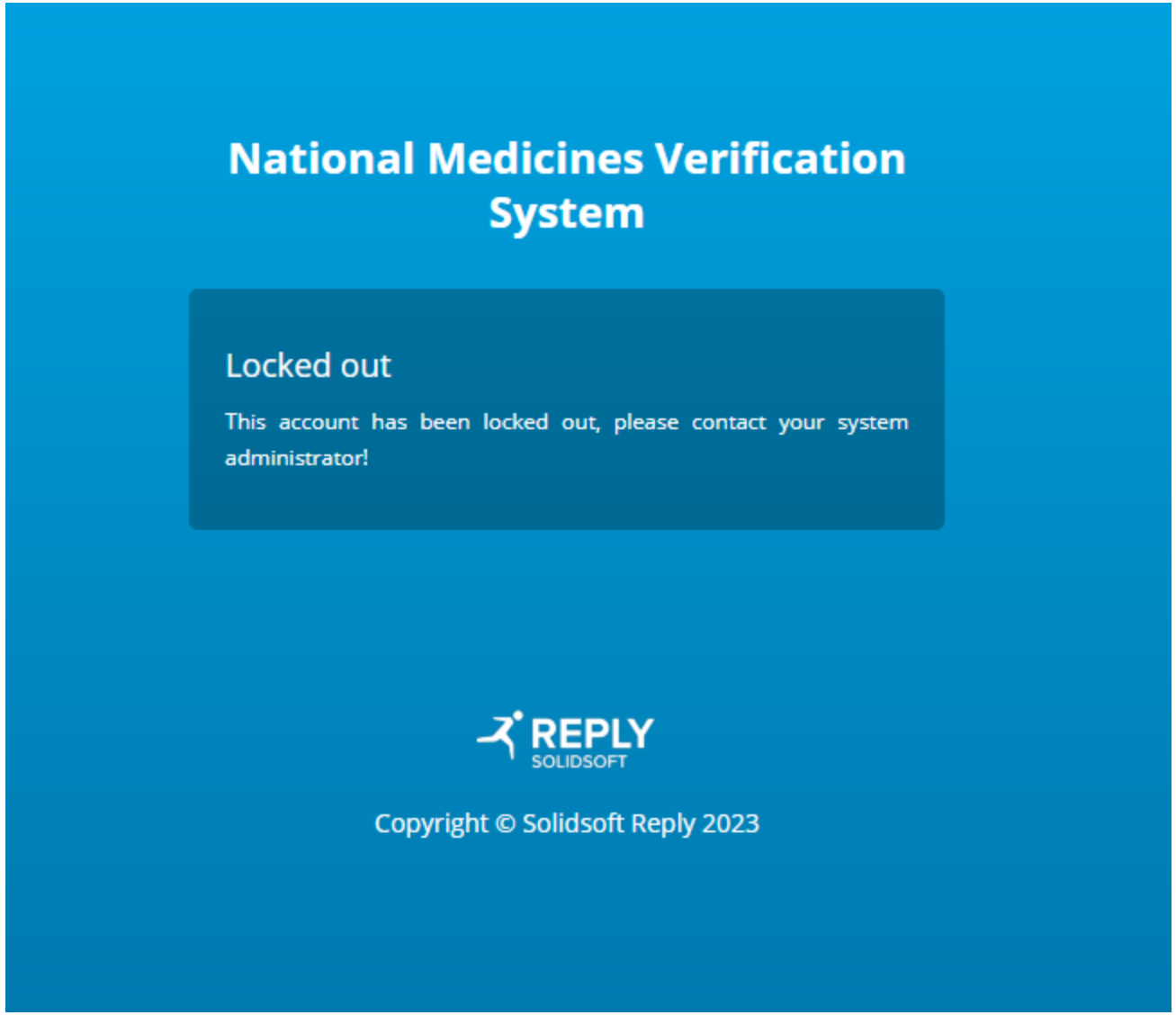
Locked Out Screen

This is the screen that is presented after too many failed login attempts - the Locked Out screen. An Admin user is required to unlock the user.



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Local Organisation Registration

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Local Organisation Registration - Email Invitation

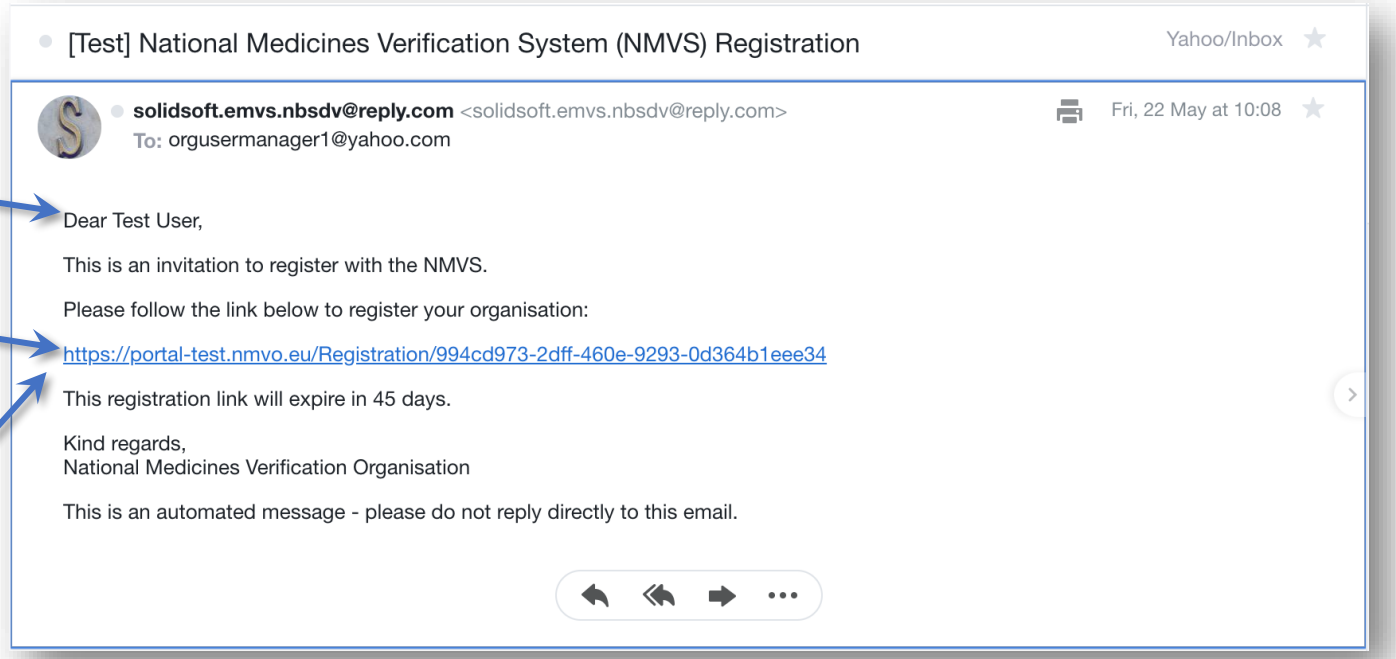
1. **The NMVO initiates the Local Organisation registration process through its NMVO Portal.**

2. **As part of that process, the NMVO will send the Prime Contact of the Local Organisation a registration email inviting them to register.**

3. **Upon receipt of the registration email, click the link in the registration email (or copy and paste the URL into the browser address bar).**

4. **Note: Please check your spam/junk email folder if you are expecting the mail but it does not appear in your inbox.**

5. **Note: The URL in the email will be unique to the associated registration. The validity period is stated in the email. If registration is not completed within the time frame, contact the local NMVO.**



Local Organisation Registration - Known Facts Challenge Screen

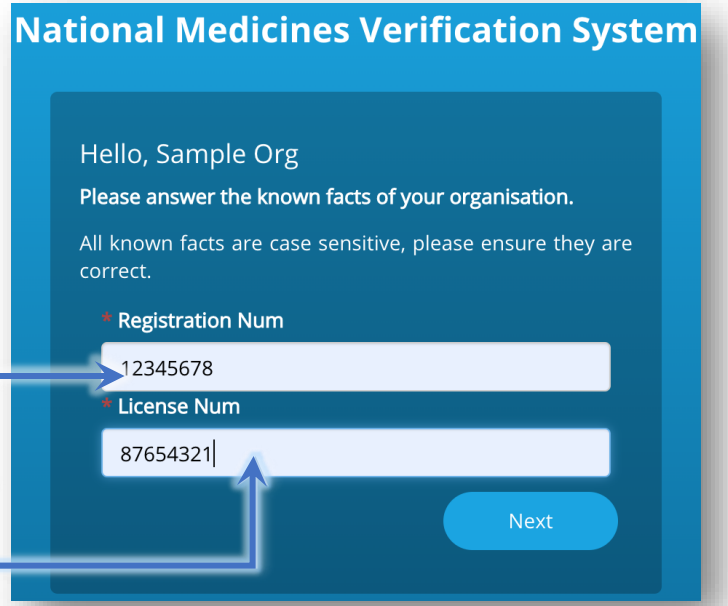
1. **Once the registration link has been opened in a web browser, the Known Facts challenge screen is presented (example screen shown to the right).**

2. **During the NMVO/Local Organisation engagement process, the Local Organisation will have agreed (or been provided) a set of questions and answers up to a maximum of 5 (the 'Known Facts').**

3. **The Prime Contact is required to input the agreed answers to all challenge questions in the text boxes:**
    1. **Example Challenge Question 1 (Registration Num)**
    2. **Example Answer 1 (12345678)**
    3. **Example Challenge Question 2 (License Num)**
    4. **Example Answer 2 (87654321)**

4. **When all answers have been supplied, click 'Next' to setup the initial Super User account.**
5. **The User name and Email are auto populated.**
6. **Enter the new password and confirm the new password.**
7. **Click complete to finish the registration process.**

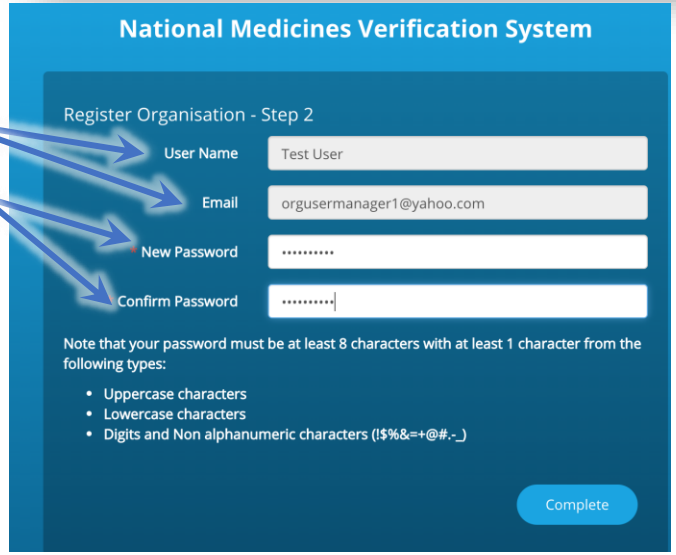
8. **Once completed, a message detailing that the registration was successful will appear.**

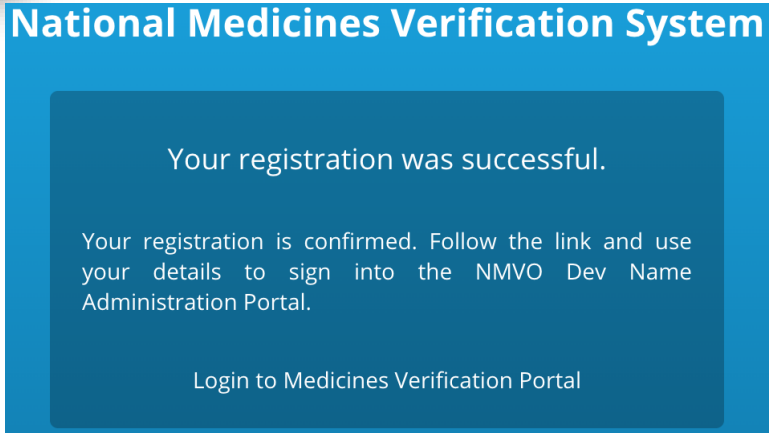


Terminology

Super User
A user in the super user role, that grants them the full set of permissions for their type of organisation.
The first user created during the registration process will be a super user.

It should be noted that the Super User role is immutable, i.e. it cannot change and will persist. It is recommended to use an email account specifically set up with this in mind.





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User Management

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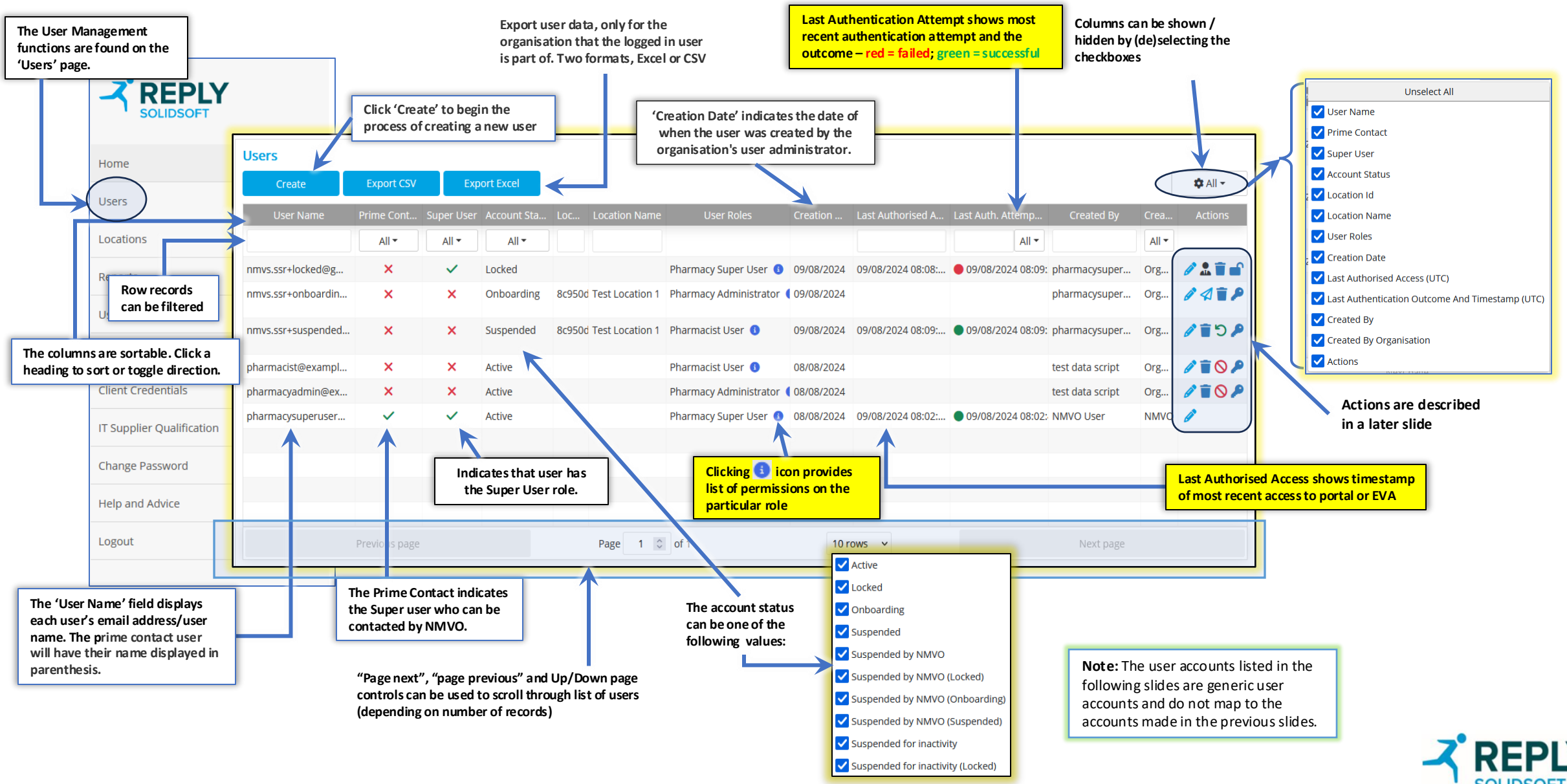
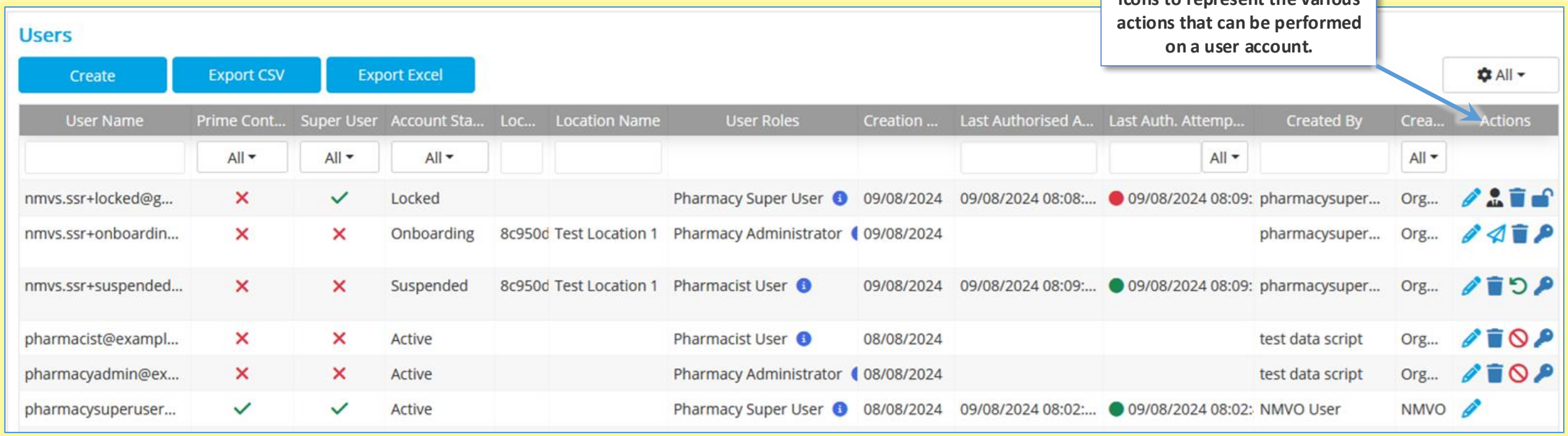
User Management - Main (1)



Note: The user accounts listed in the following slides are generic user accounts and do not map to the accounts made in the previous slides.

User Management - Main (2)

The 'Actions' field contains icons to represent the various actions that can be performed on a user account.



Edit a user

Change the user's role(s) or their default location.
If the user is the prime contact, first and last name can be amended.

Delete a user

Permanent deletion of a user. The account is not recoverable.

Unlock a user

The answer for when a user has locked their account after too many failed login attempts (after 5 attempts).

Suspend a user

Suspension disables a user from being able to login to the Administration Portal or the Emergency Verification Application.

Reinstate a user

Reinstates a user following a suspension, enabling them to login to the Portals again.

Reassign Prime contact

Reassigns an organization prime contact from one super user to another super user.

Resend Invitation Email

Resends the invitation email to the user for activating their account.

Force Password Reset

To force the affected user to choose a new password on the next login.

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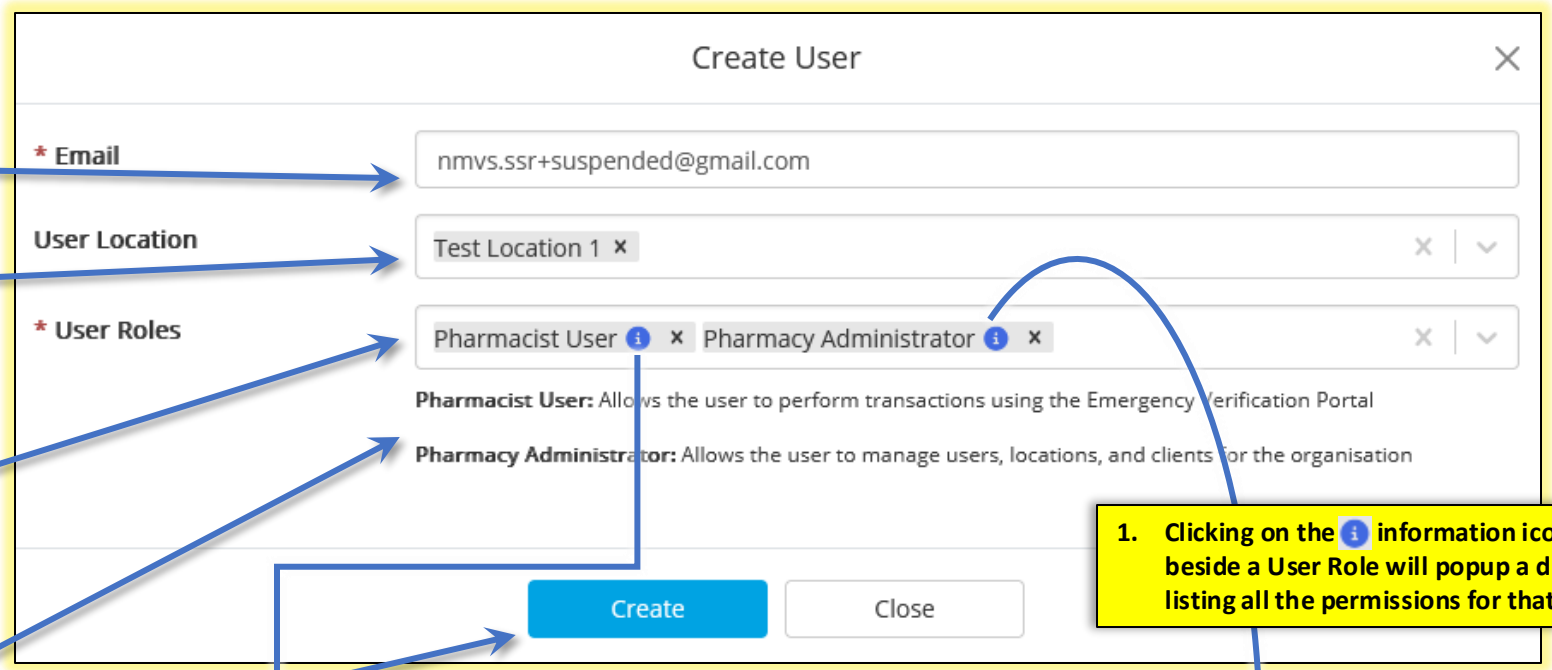
User Management - Create User (1)

Fields marked with a red asterisk * are mandatory

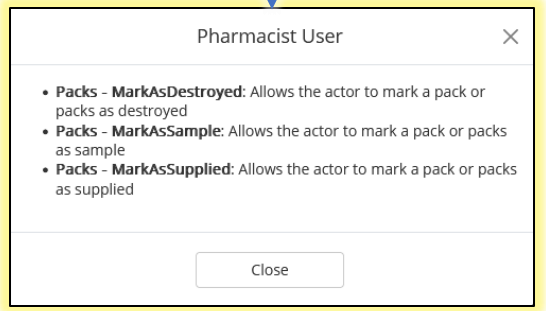
1. Enter the email address of the new user.
2. User can optionally specify the location that will be automatically assigned to the new user when accessing the EVA portal.
3. The User Role must first be defined (through the ***User Roles*** page) for the new user account being created.

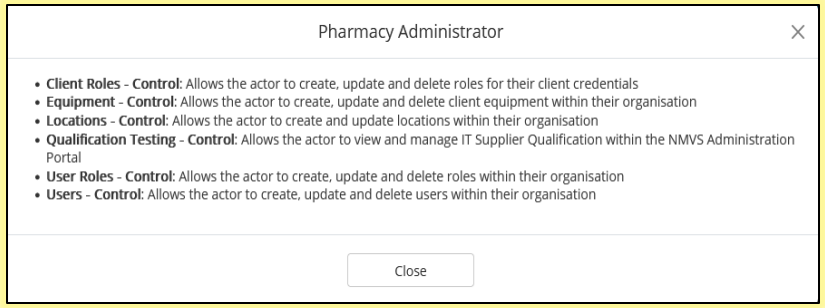
   The possible User Roles are listed in the 'User Roles' box.

   Select the user's role(s). It is possible to assign multiple roles to a single user.
4. In this example a new user is created with both the 'Pharmacist User' and 'Pharmacy Administrator' user roles.
5. Click the 'Create' button.
6. An invitation email is sent to the new user to begin the registration process.



1. Clicking on the ℹ information icon beside a User Role will popup a dialog listing all the permissions for that role





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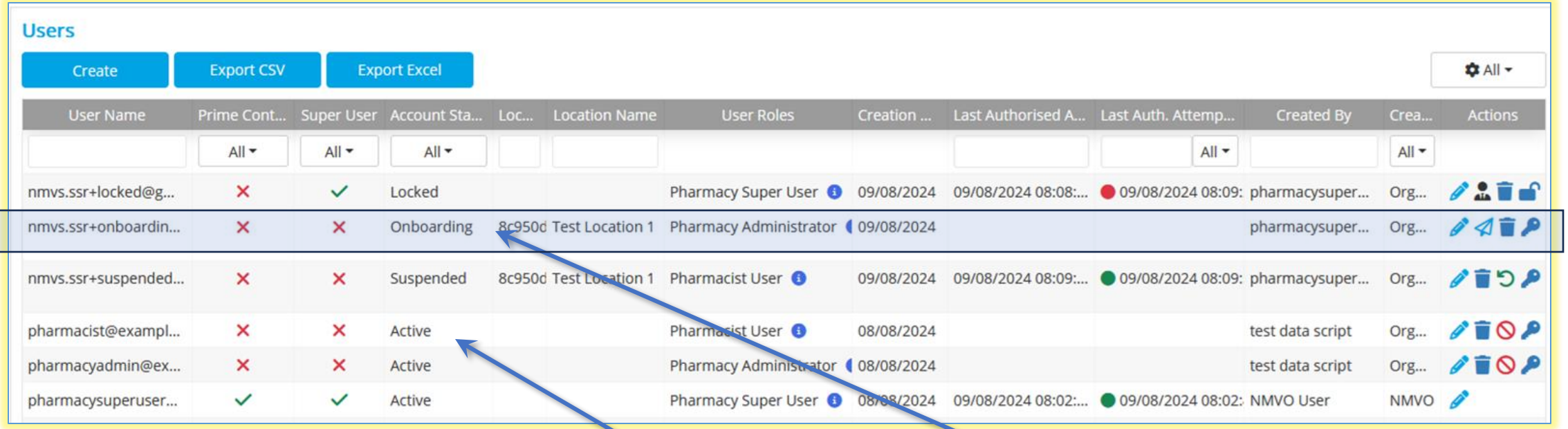
User Management - Create User (2)



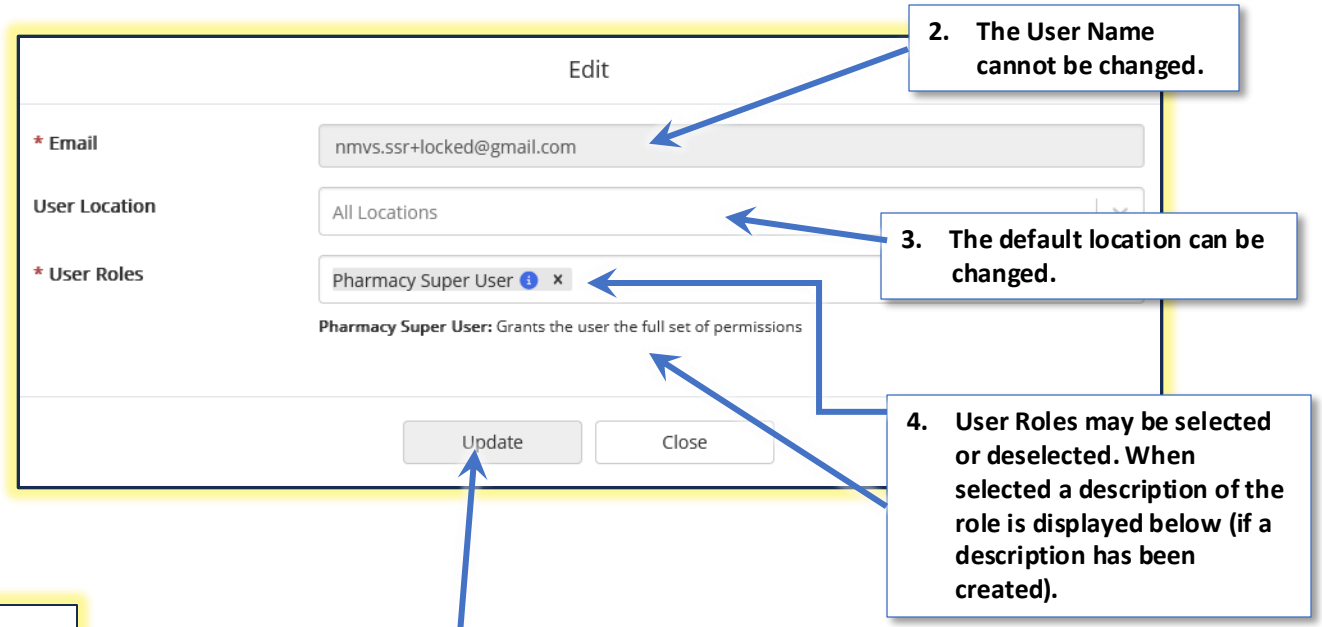
When a user is successfully created a new entry is listed in the 'Users' table.

Initially the user will be in the 'Onboarding' state, as shown in the 'Account Status' field.

This will change to 'Active' when the user has completed the registration process.

User Management - Edit User

1. To edit a user select the pencil icon in the row of the table for the user you wish to edit.



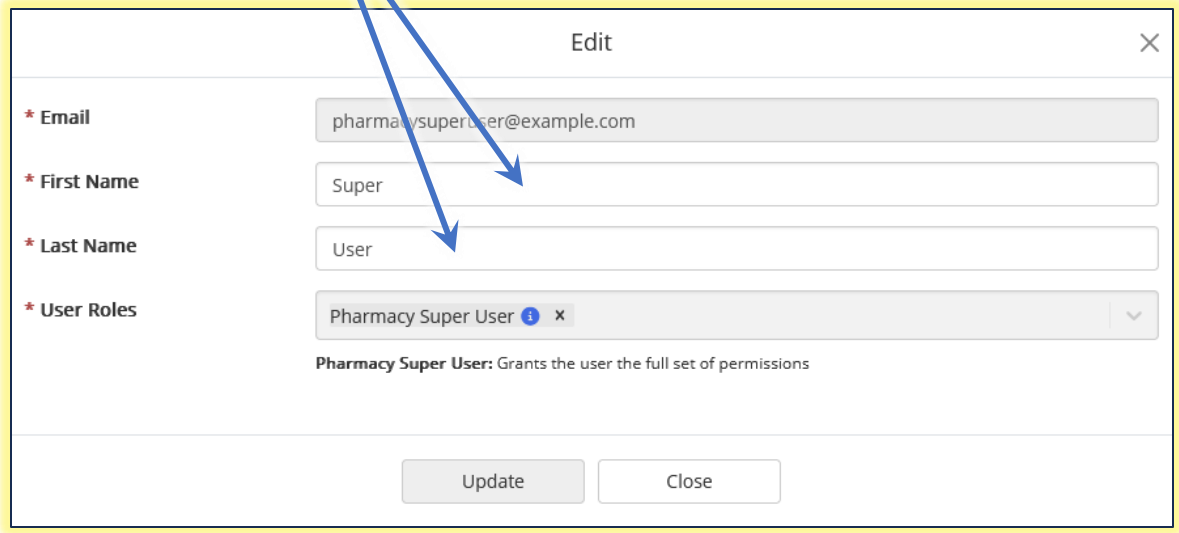
2. The User Name cannot be changed.

3. The default location can be changed.

4. User Roles may be selected or deselected. When selected a description of the role is displayed below (if a description has been created).

5. Click 'Update' to finalise the changes.

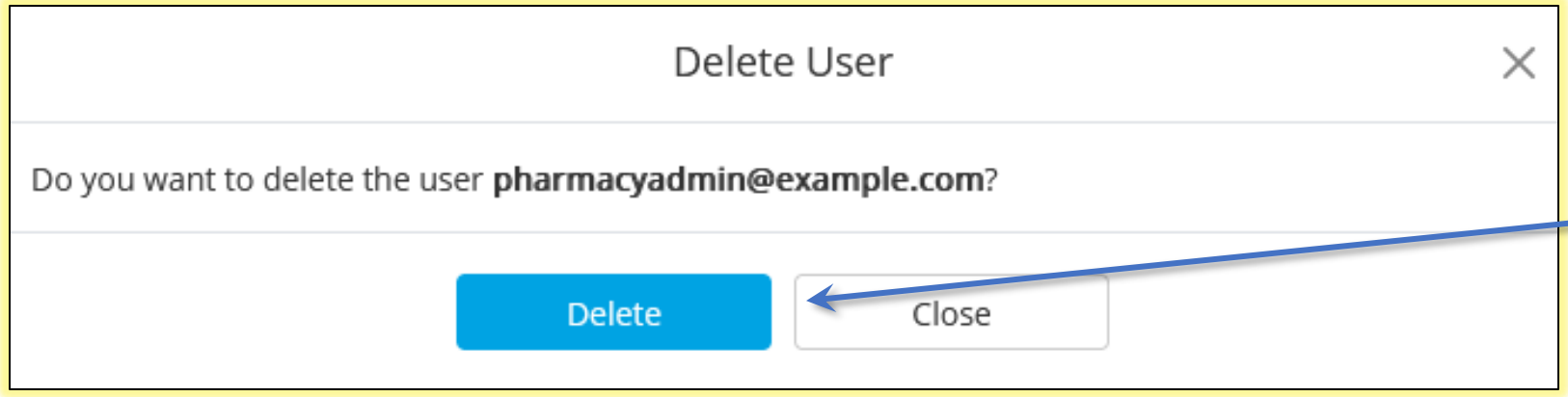
NOTE: When updating a prime contact user the First and Last Name are also displayed. The name will also be visible to the NMVO to assist in contact.



User Management - Delete User

1. To permanently delete a User, select the bin icon in the row of the table for the user you wish to delete.

2. Note: The account is not recoverable.

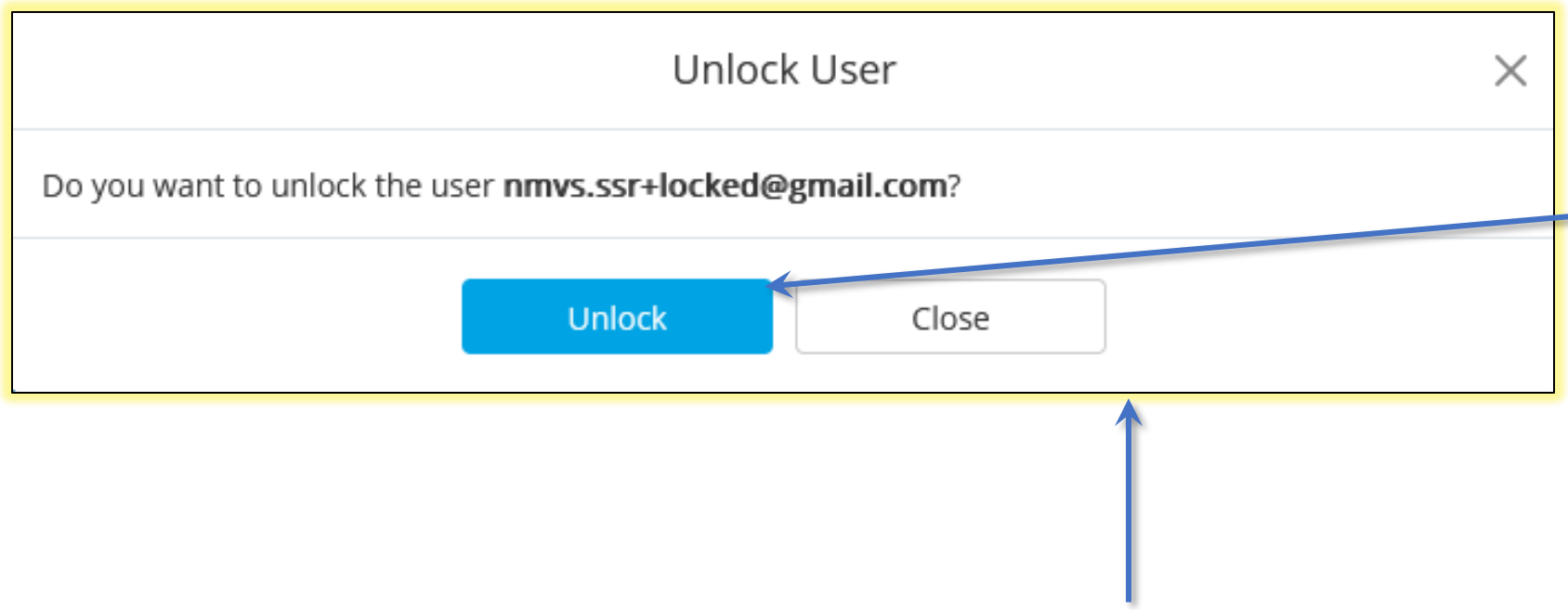


3. Check the User Name is correct for the account you want to delete.

4. Click ‘Delete’ to delete the user.

User Management - Unlock User

1. To unlock a user (following account suspension due to too many failed login attempts), select the open padlock icon in the row of the table for the user you wish to unlock.

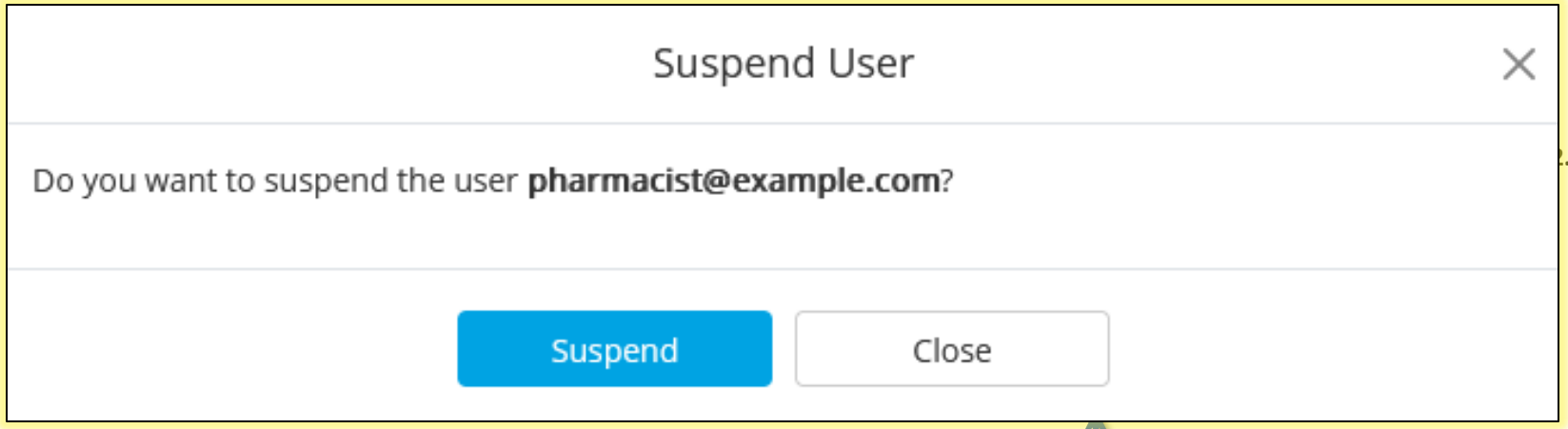


2. Check the User Name is correct for the account you want to unlock.

3. Click 'Unlock' to unlock the user

User Management - Suspend User

1. To suspend a user and disable their account from accessing the Administration Portal or the Emergency Verification Application, select the stop icon in the row of the table for the user you wish to suspend.

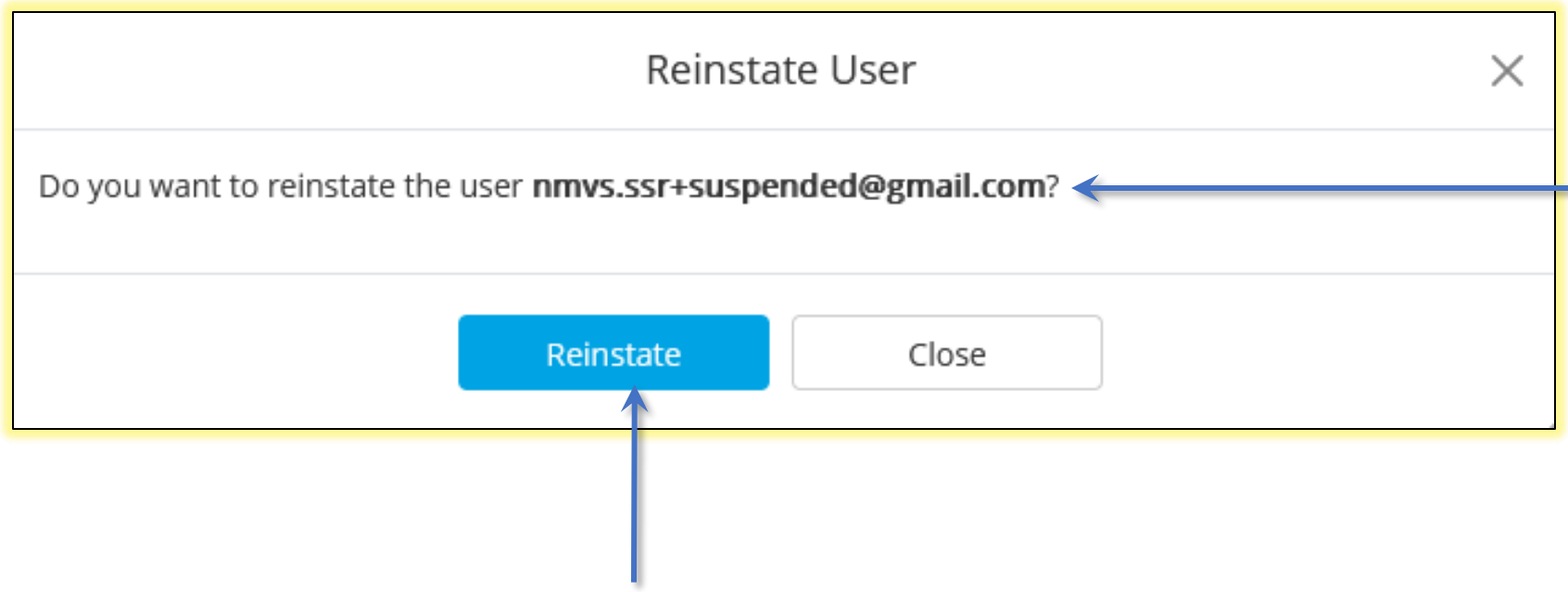


2. Check the User Name is correct for the account you want to suspend

3. Click ‘Suspend’ to suspend the user

User Management - Reinstate User

1. To reinstate a user (following account suspension), select the tick icon in the row of the table for the user you wish to reinstate.



2. Check the User Name is correct for the account you want to reinstate

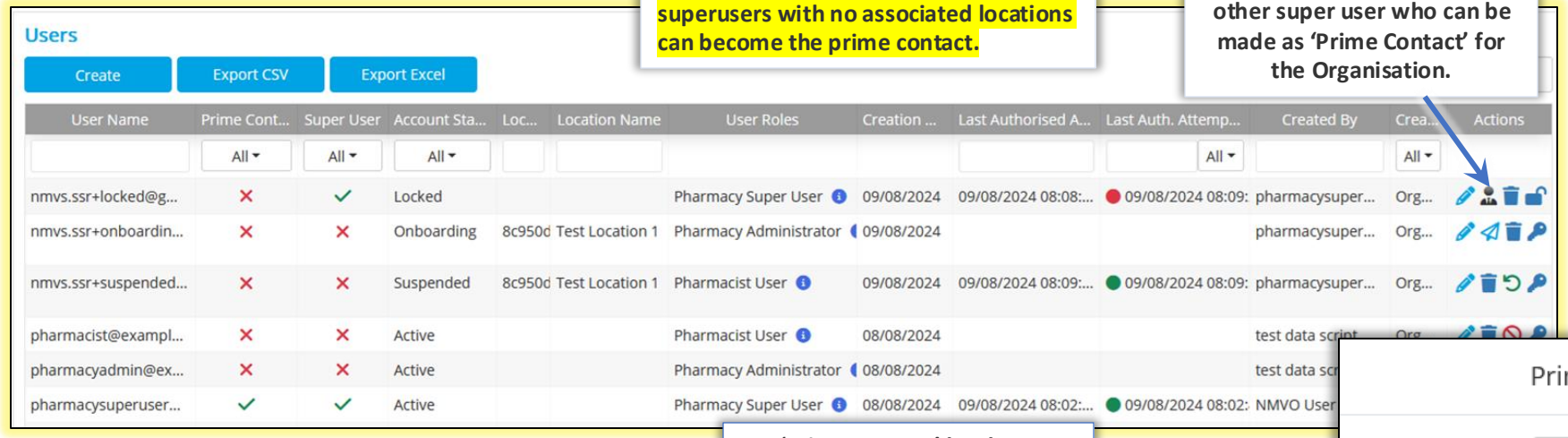
3. Click ‘Reinstate’ to reinstate the user

User Management - Reassign Prime Contact

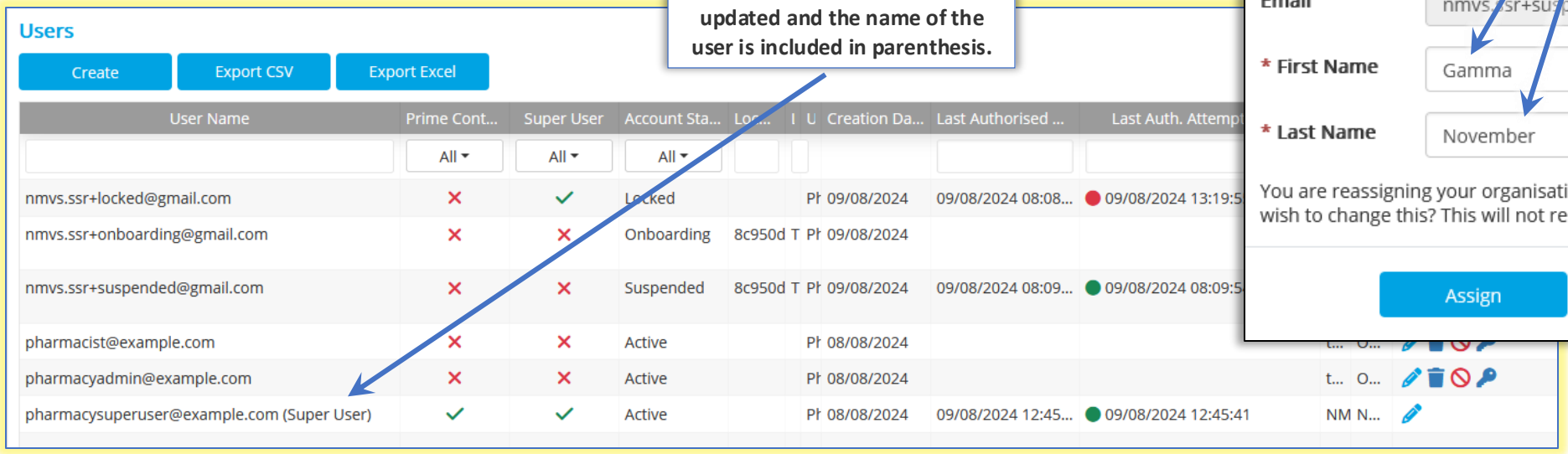
The Super user can reassign an organisation's prime contact from one Super User to another Super User. Only superusers with no associated locations can become the prime contact.

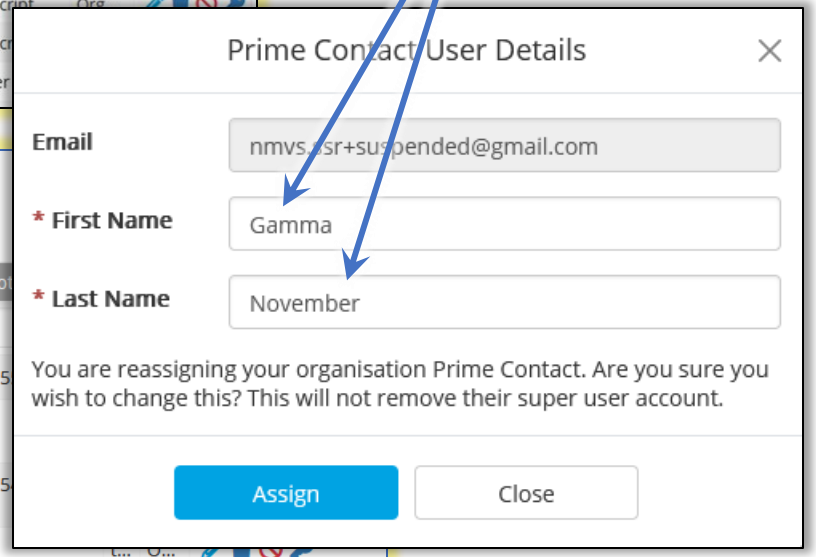
The 'Prime Contact' icon will be shown in action list for the other super user who can be made as 'Prime Contact' for the Organisation.

On selection of the given 'Prime Contact' icon, it will present a popup where the user can enter the relevant 'First Name' and 'Last Name' for the new Prime Contact.



'Prime Contact' has been updated and the name of the user is included in parenthesis.

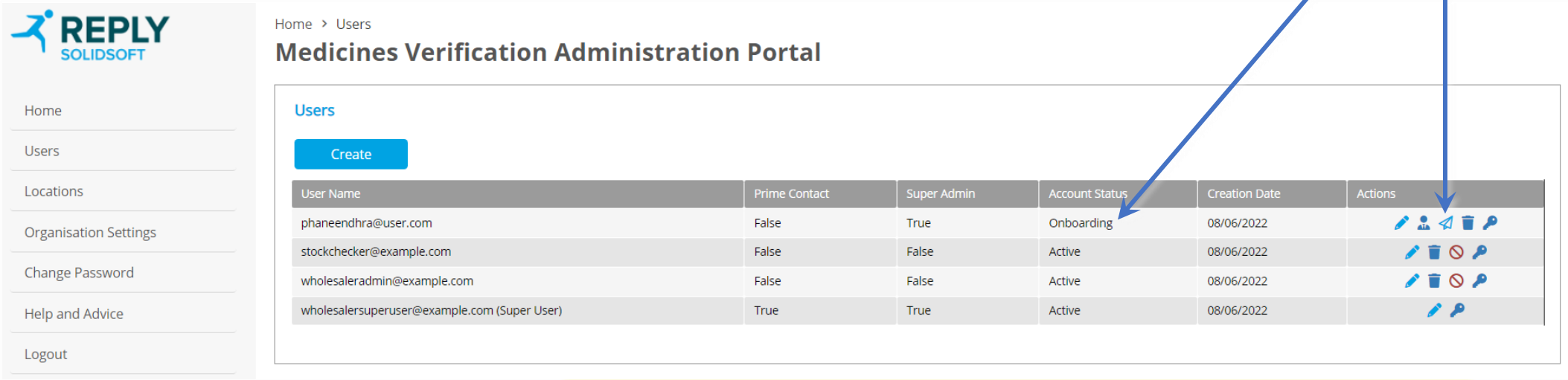




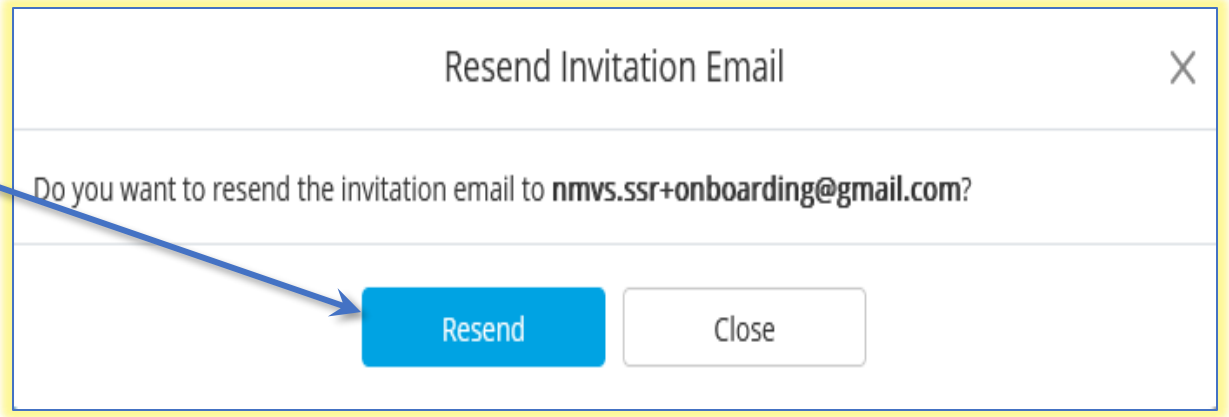
User Management – Resend Invitation Email

Note: At initial creation of a user, an email is sent to the new user to complete their registration. If somehow this email is lost, the resend invitation email button is available to help with the process.

The "Resend Invitation Email" icon will be shown in the action list for any users with an account status as "Onboarding".



On selection of the given 'Resend Invitation Email' icon, it will present a popup where the user can click the "Resend" button to resend the invitation email to complete the registration.



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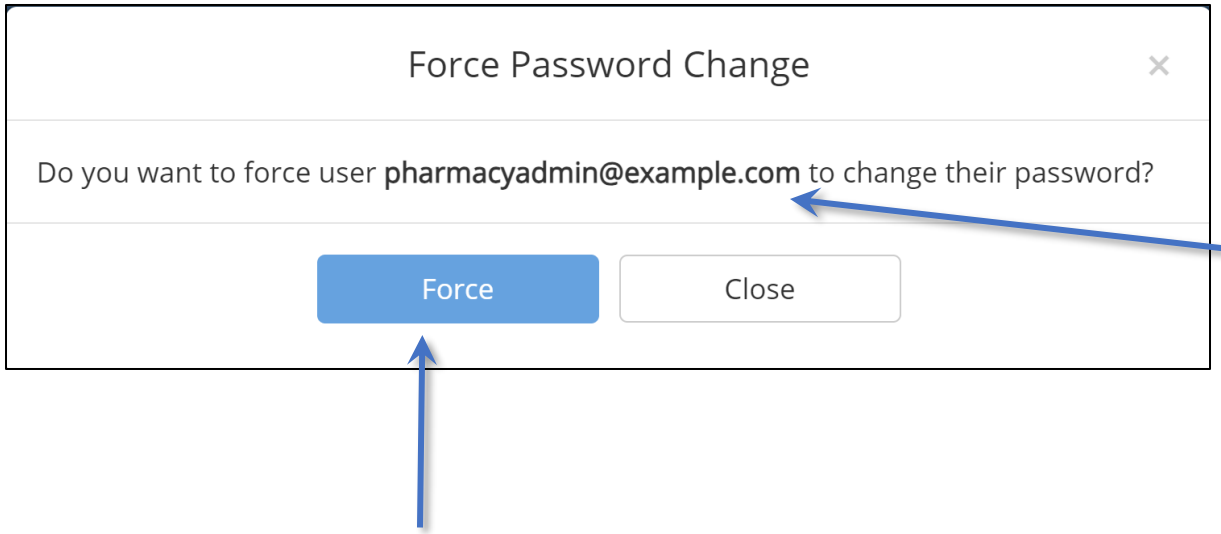
User Management – Force Password Reset

1. **To force password reset a user, select the key icon in the row of the table for the user you wish to password reset.**



2. **Check the User Name is correct for the account you want to reset password**

3. **Click 'Force' to reset the user password**

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Location Management

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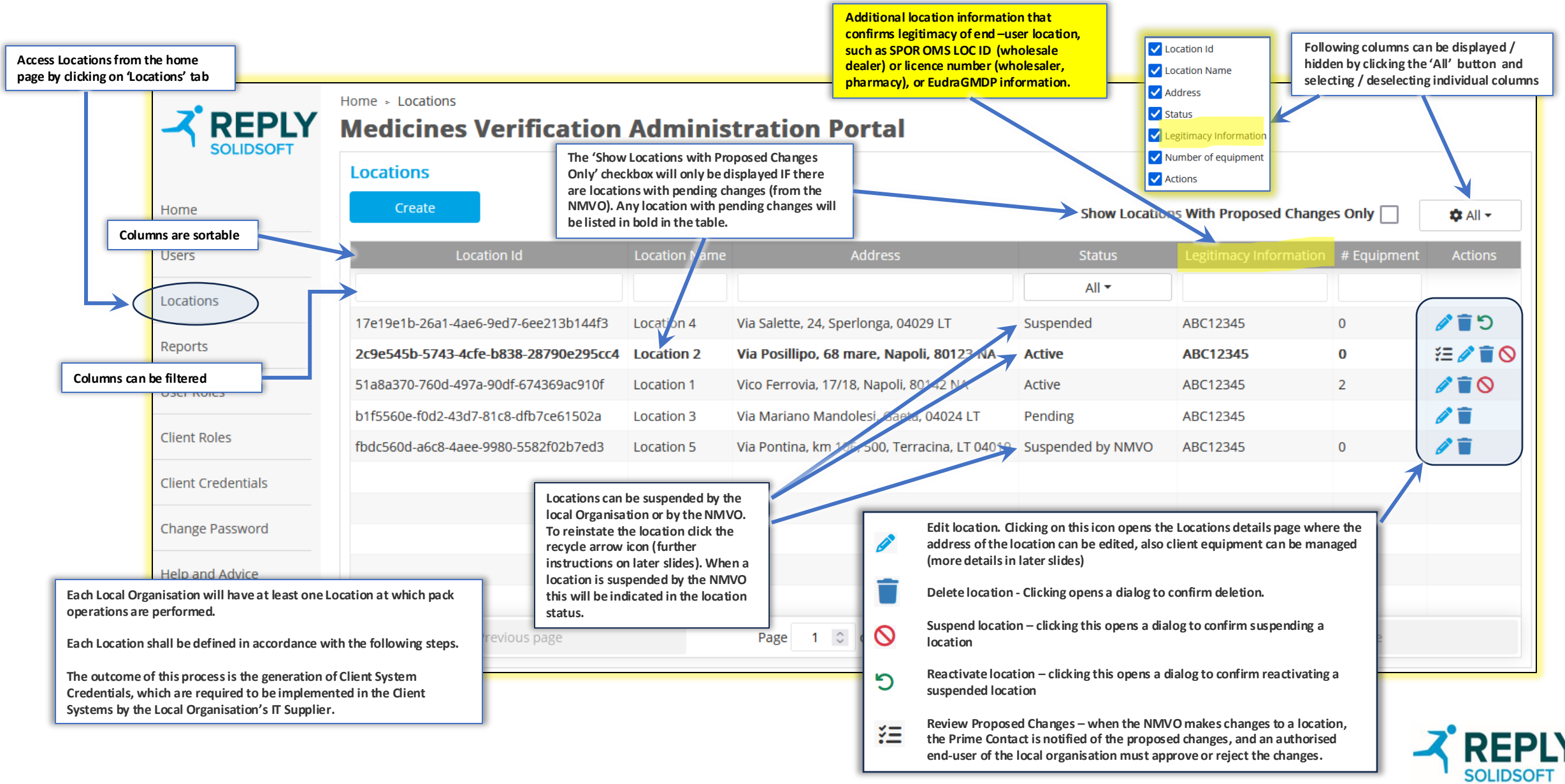
Location Management - Main



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Location Management - Add Locations

1. To begin the process of adding a location, click 'Create' button. The 'Add Location' dialog will appear.

2. Enter details (address) of the new location in the popup dialog. Fields with a red asterisk * are mandatory

Legitimacy Information field is shown here because field ownership is configured at Local Organisation level. If Legitimacy information ownership is set to NMVO level the field will not be shown at all. Whether field is mandatory or not is also a system configuration

Location Name: The geographic location where pack operations will be performed.

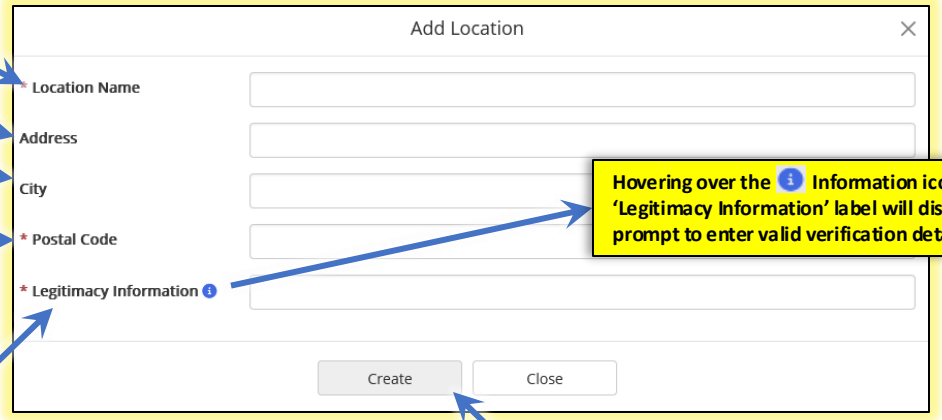
Address: The physical address of the location where pack operations will be performed.

City: The city in which pack operations will be performed.

Postal Code: The postal code of the location at which operations will be performed. The postal code must be provided.

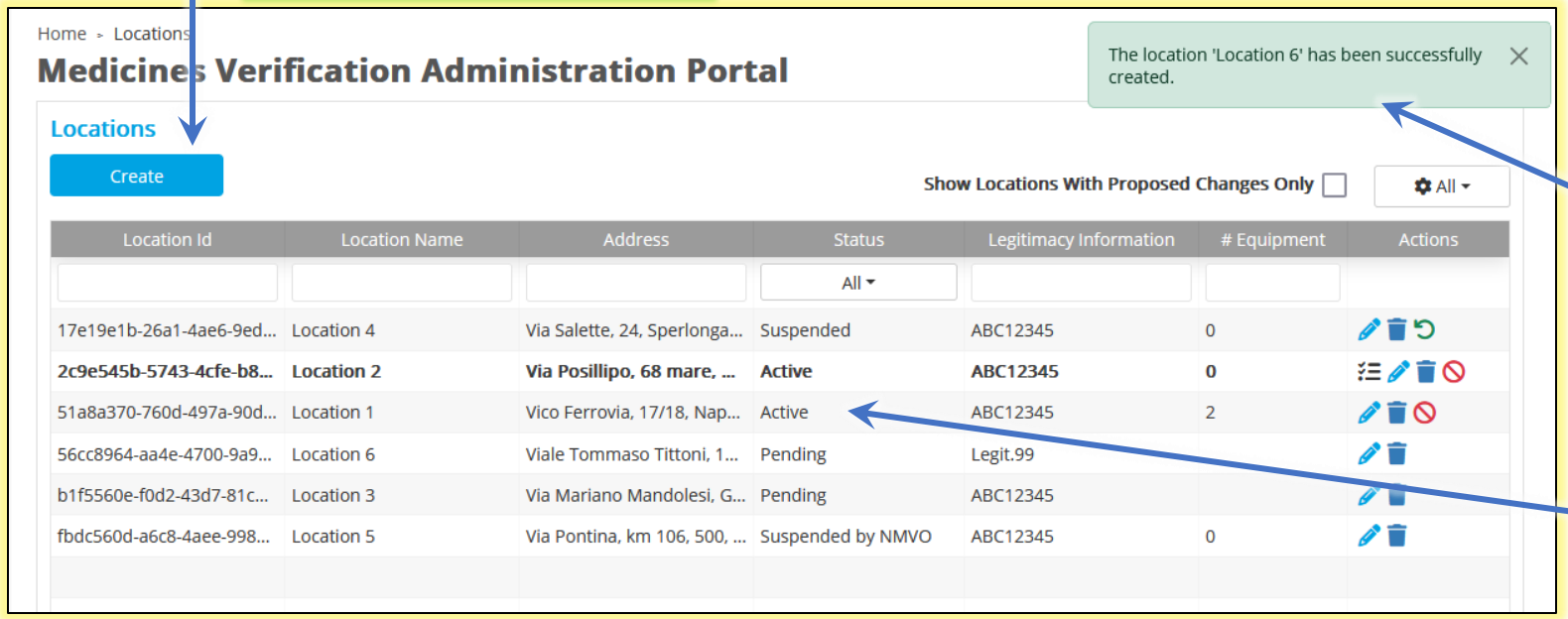
The Country Code field only appears for systems in Switzerland or Lichtenstein

Legitimacy information confirms that location is valid.



Hovering over the Information icon beside 'Legitimacy Information' label will display a prompt to enter valid verification details

3. Click 'Create' to add the new location. The dialog will be dismissed and user returned to main Locations page.



4. A toast message will be briefly displayed.

Newly added location will appear in Locations table with 'Pending' status. The NMVO will then review the location details and decide on whether to approve the location before the location can become active.

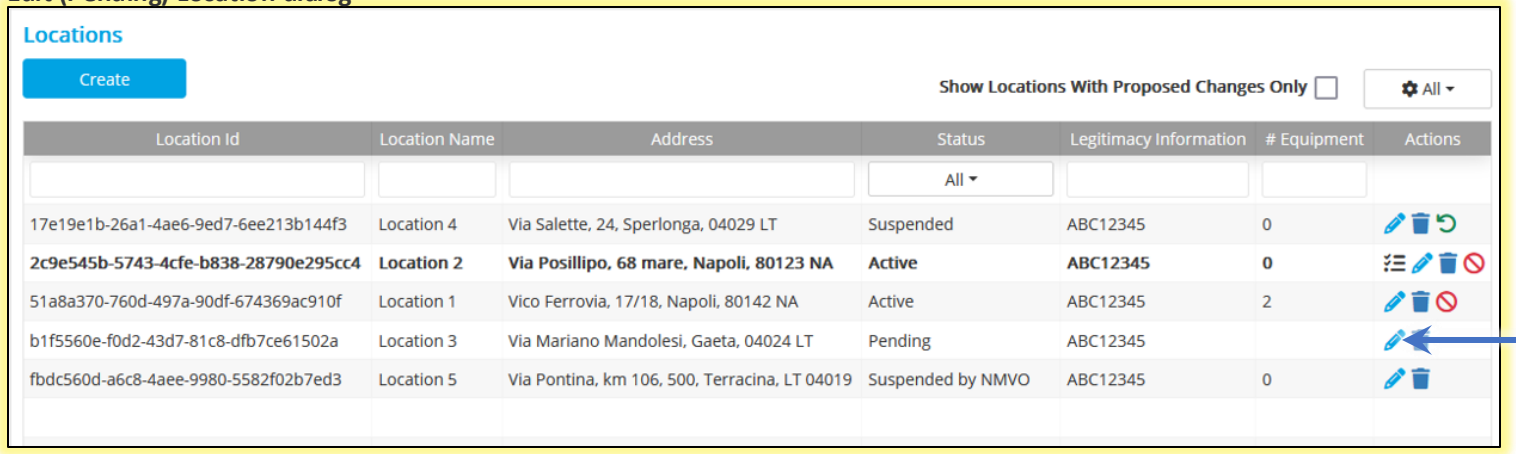
Note that this functionality may be disabled in your market. If so, created locations will move directly to being active.

REPLY SOLIDSOFT

Location Management - Edit Pending Location

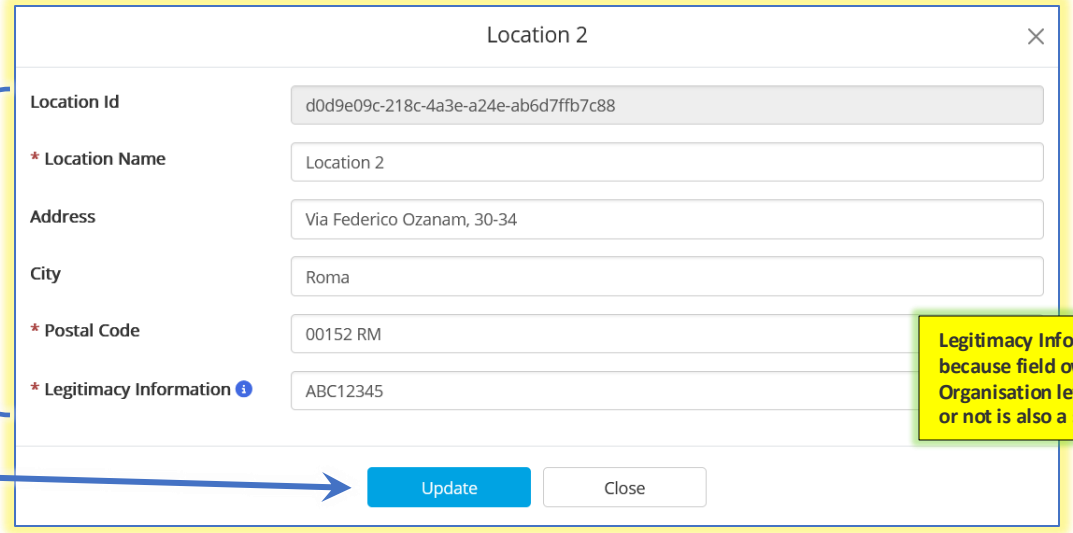
When a location is in a pending state the edit functionality allows the local organisation to modify the properties that they have provided to the NMVO for legitimacy checking. Any modification will be visible to the NMVO while they are reviewing the pending location. Modifying the pending location properties may be a result of legitimacy check discussions with the NMVO, or to correct typographical errors.

Main Location page



1. To edit a location, click the 'Edit' icon next to the Location with 'Pending' status and the Edit (Pending) Location dialog will be displayed.

Edit (Pending) Location dialog



2. It is possible to edit the information fields associated with a Location, i.e.:

- Location Name
- Address
- City
- Postal Code
- Legitimacy Information

It is not possible to change the Location ID generated by the portal.

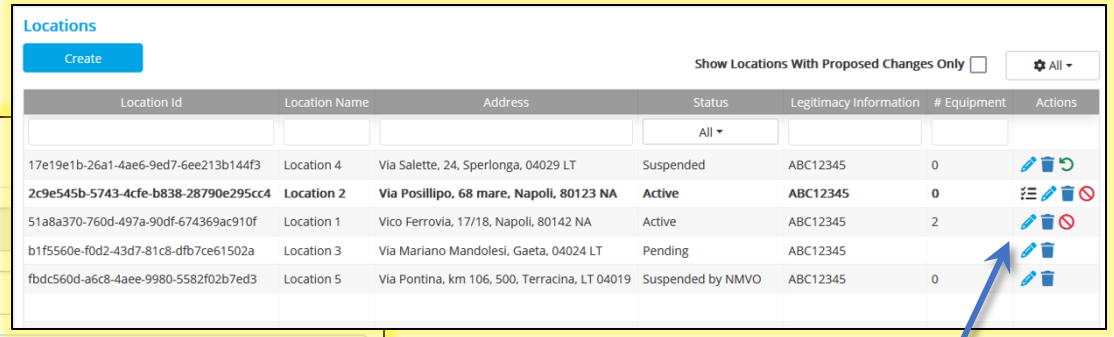
Legitimacy Information field is shown here because field ownership is configured at Local Organisation level. Whether field is mandatory or not is also a system configuration

3. When any field of the address is edited, the Update button becomes enabled. Click the 'Update' button and dialog is dismissed and user is returned to main location page.
A toast message is briefly displayed on the main locations page.

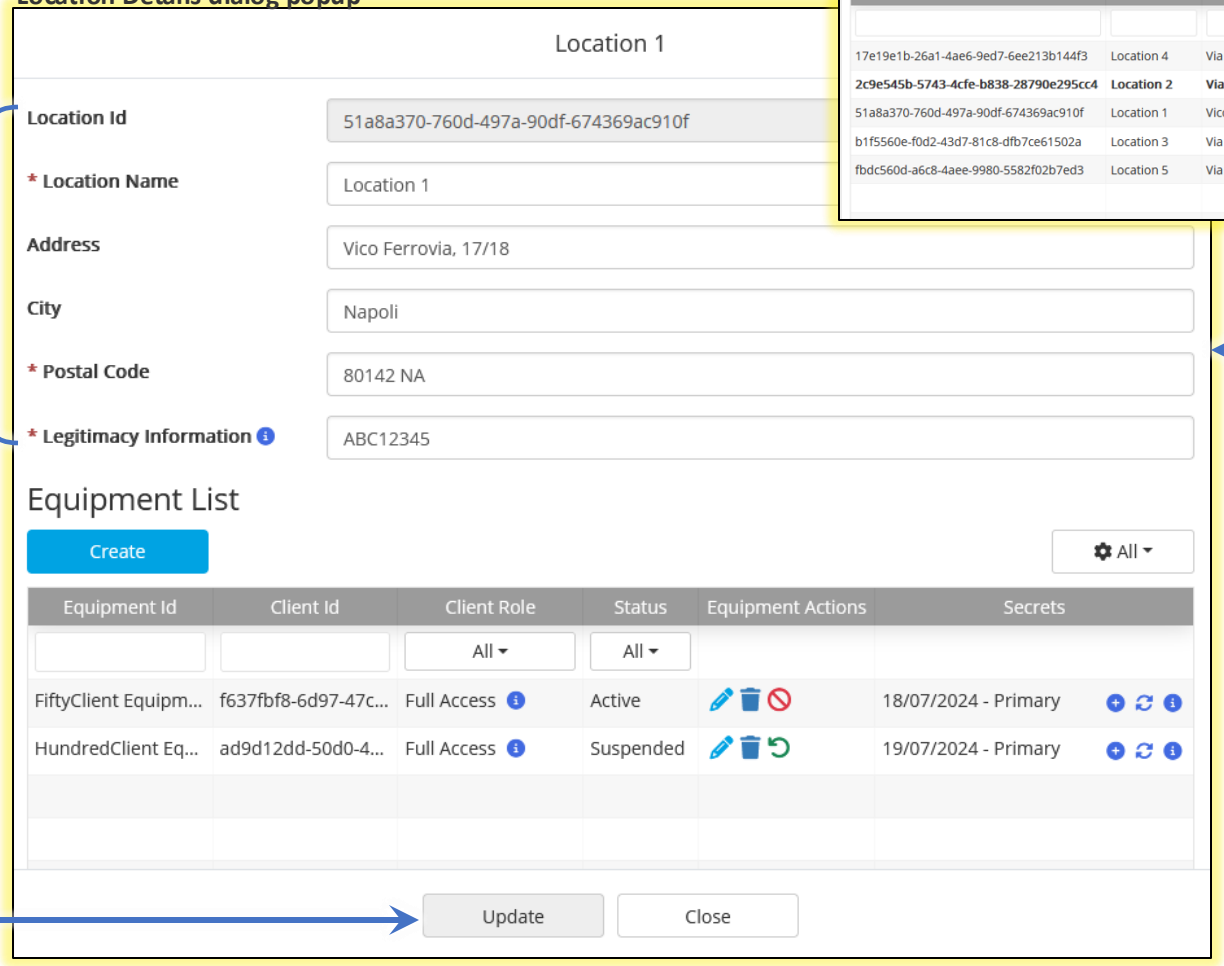
REPLY SOLIDSOFT

Location Management - Edit Non-Pending Location

Main Location page



Location Details dialog popup



2. It is possible to edit the information fields associated with a Location, i.e.:

- Location Name
- Address
- City
- Postal Code
- Legitimacy Information

It is not possible to change the Location ID generated by the portal.

To edit a location, click the 'Edit' icon next to the Location to be edited and the Location details dialog will be displayed.

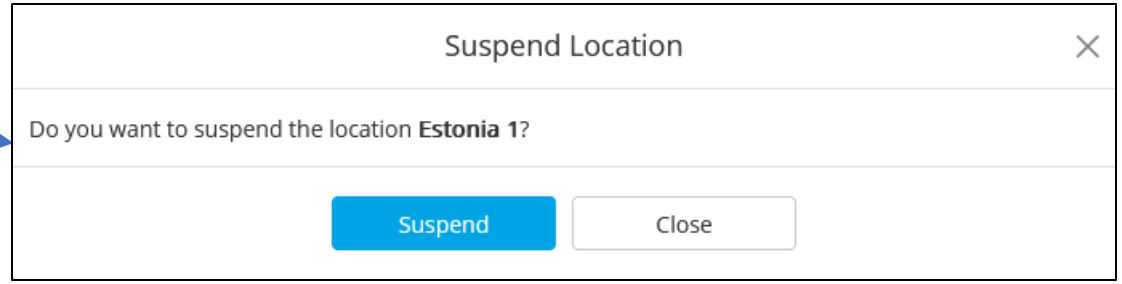
3. When any field of the address is edited, the Update button becomes enabled

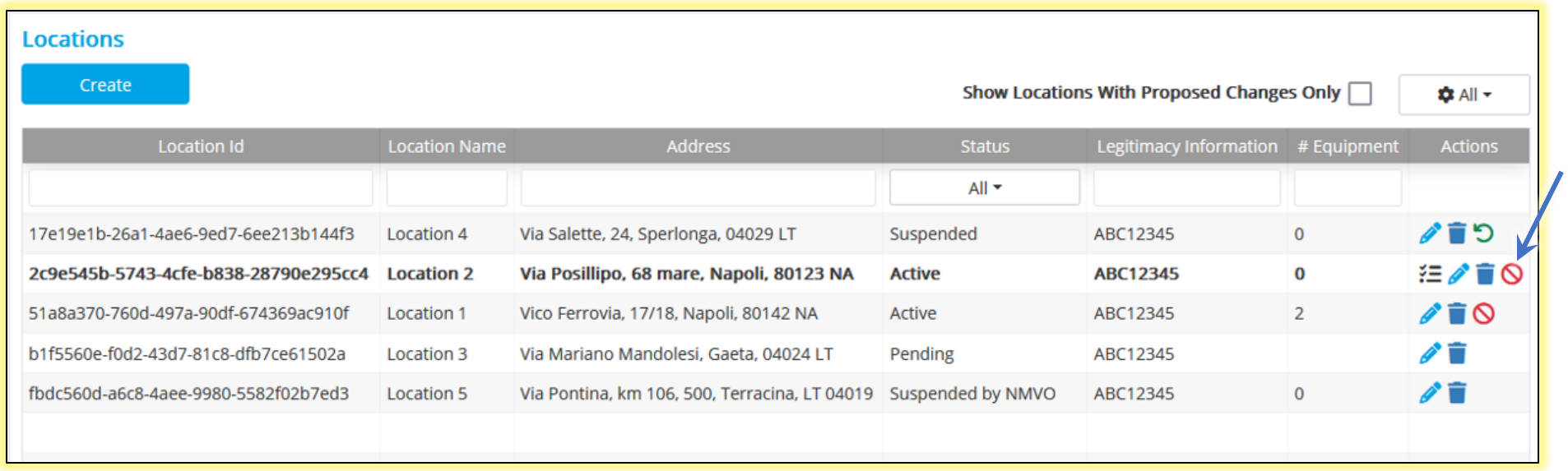
Location Management - Suspend Location

There may be circumstances in which it is necessary to Suspend an entire Location.

Suspending a location will cause any requests, made to the NMVS, from equipment in that location to be rejected.

2. A confirmation window will prompt the user to confirm that the location is to be suspended. To enact the suspension, click 'Suspend'.



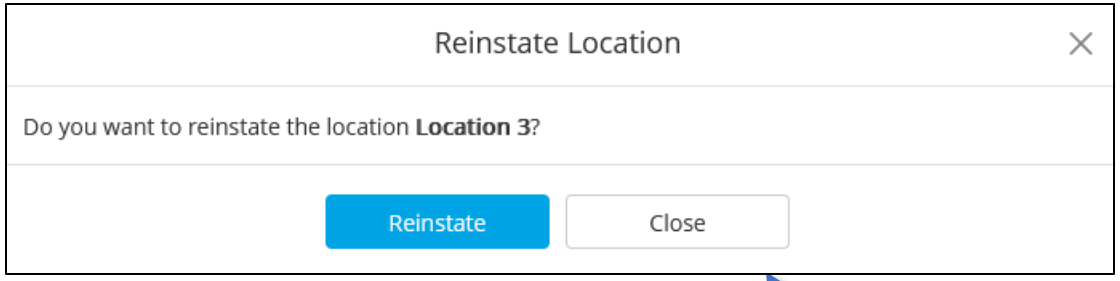


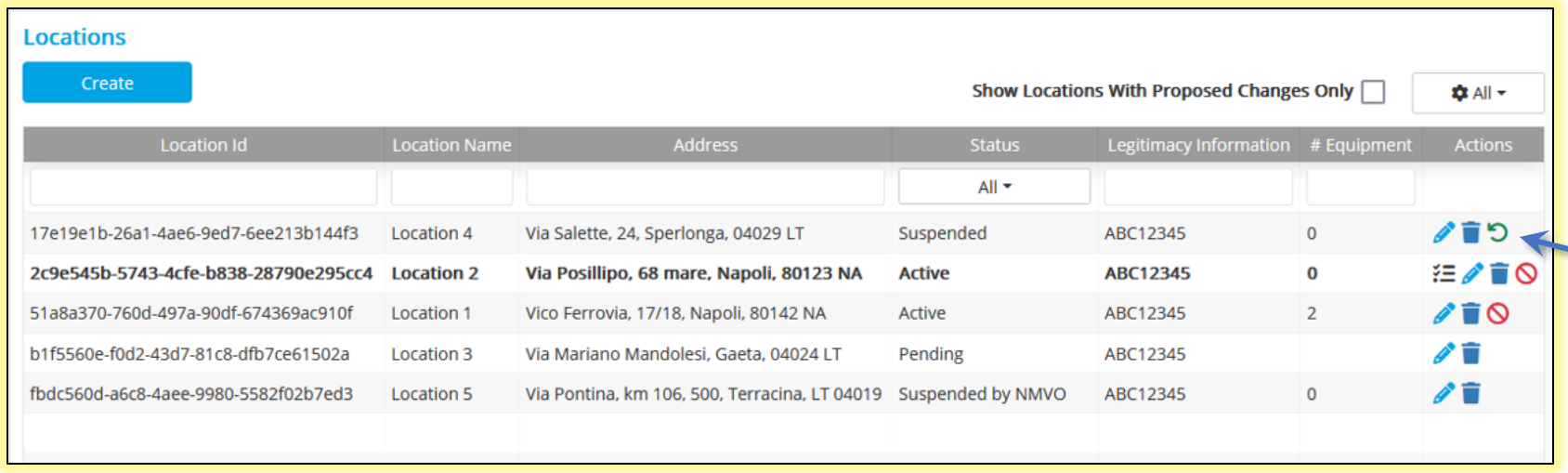
1. To suspend a location, click the 'Suspend' icon against the location record.

REPLY SOLIDSOFT

Location Management - Reinstate Location

Suspended locations may be reinstated, allowing requests made from that location to the NMVS to be accepted.

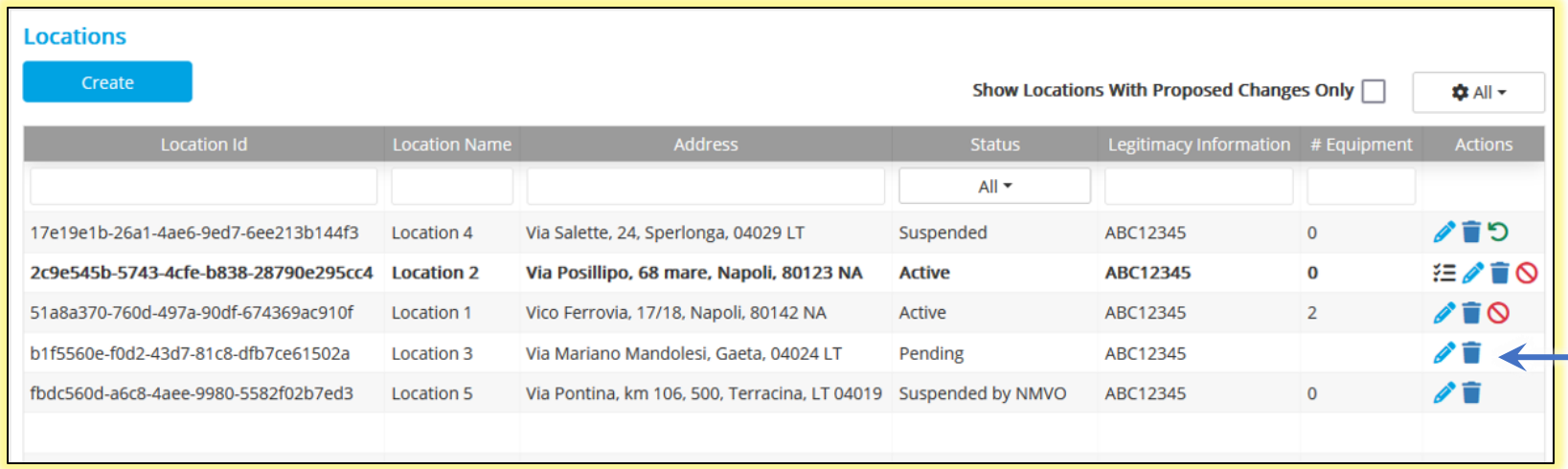




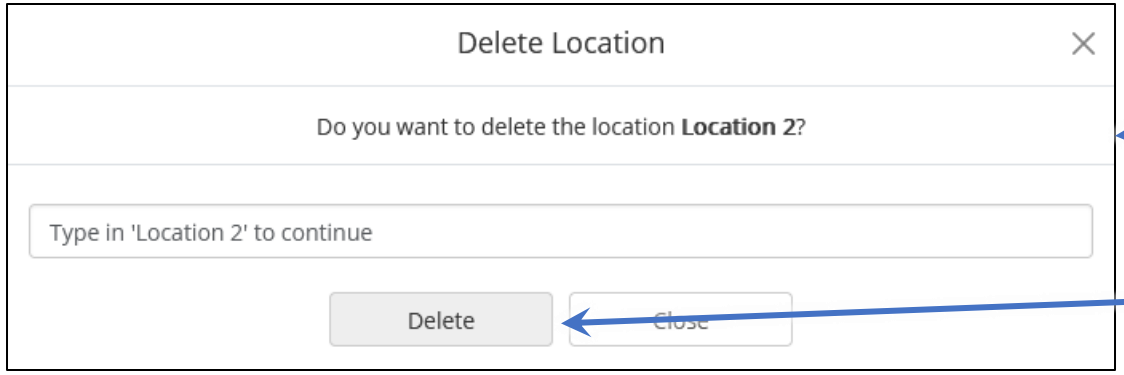
To reinstate a location following a suspension, click on the 'Reinstate' icon, then the 'Reinstate' button in the pop-up window.

Location Management - Delete Location

It may be necessary to delete locations, for example if a location is closed down, or no longer performs pack operations.



To delete a location, click the 'Delete' icon next to the Location to be deleted.



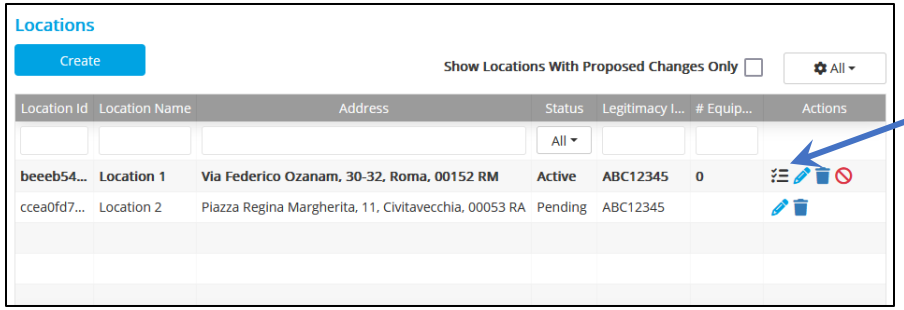
2. A confirmation window will prompt the user to enter the name of the Location as a safety check before allowing the delete action to proceed.
3. When the location has been entered, click 'Delete' button.
4. Dialog will be dismissed and user returned to main locations page. A toast confirmation message will be briefly displayed.

Warning: Deleting a location will prevent any reactivation of packs decommissioned in this location since the location ID will have been permanently deactivated. Use with care.

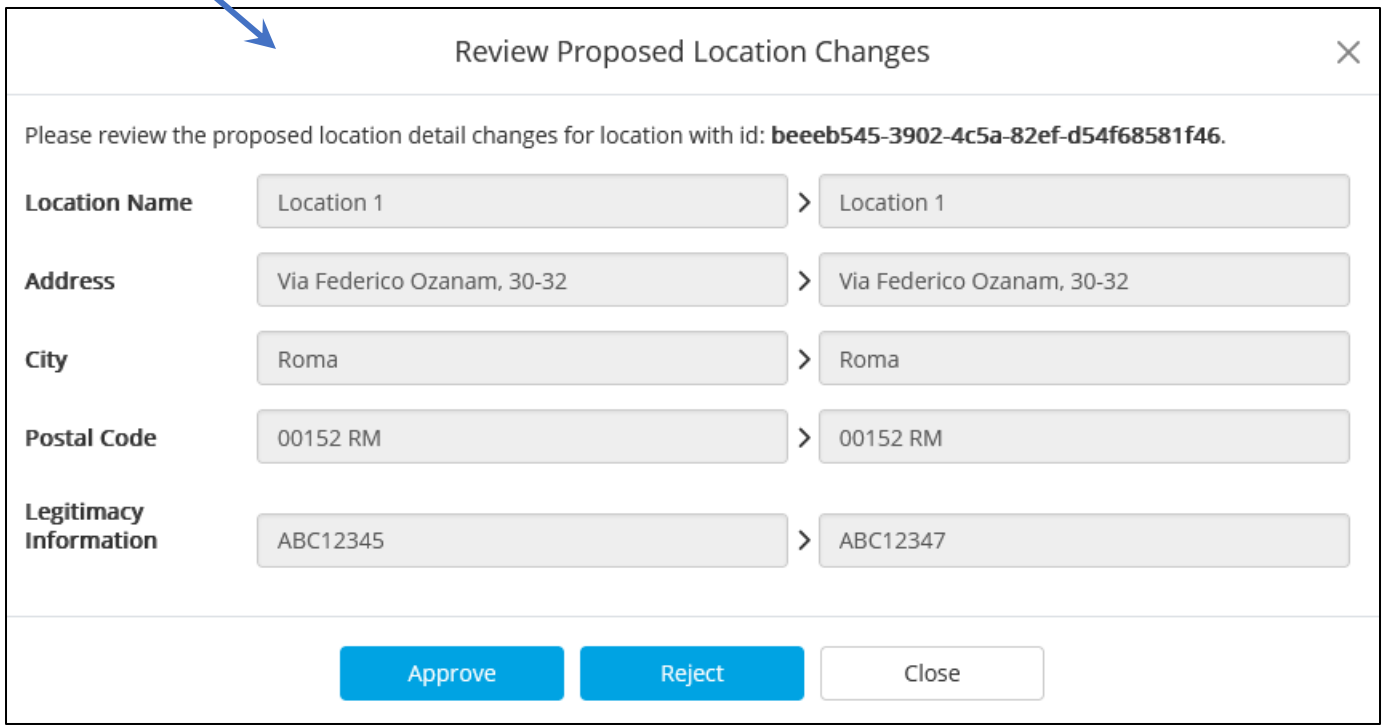
Only the NMVO can reactivate a deleted location, but any associated client credentials are permanently lost.

REPLY SOLIDSOFT

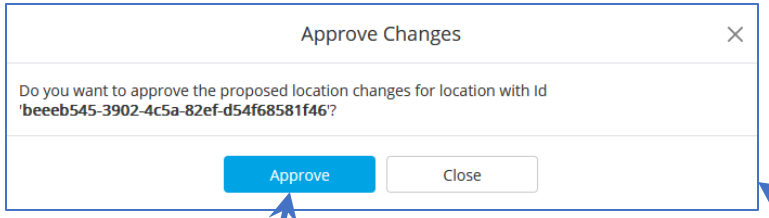
Location Management – Review Proposed Location Changes



1. To review changes proposed by the NMVO click the 'Review Proposed Changes' icon and the appropriate dialog will popup.

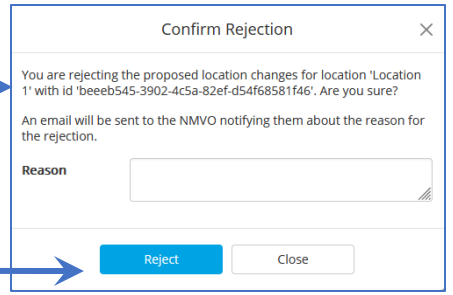


NOTE: If Legitimacy Information Ownership is at NMVO level and the NMVO only changes legitimacy info, this change will be persisted in the database and does not require approval from the local organization.



2. To approve or reject the proposed changes, click either the 'Approve' or 'Reject' buttons as appropriate, and the corresponding confirmation dialog will popup.

For rejections it is possible to give a reason. Also, an email will be sent to the NMVO.



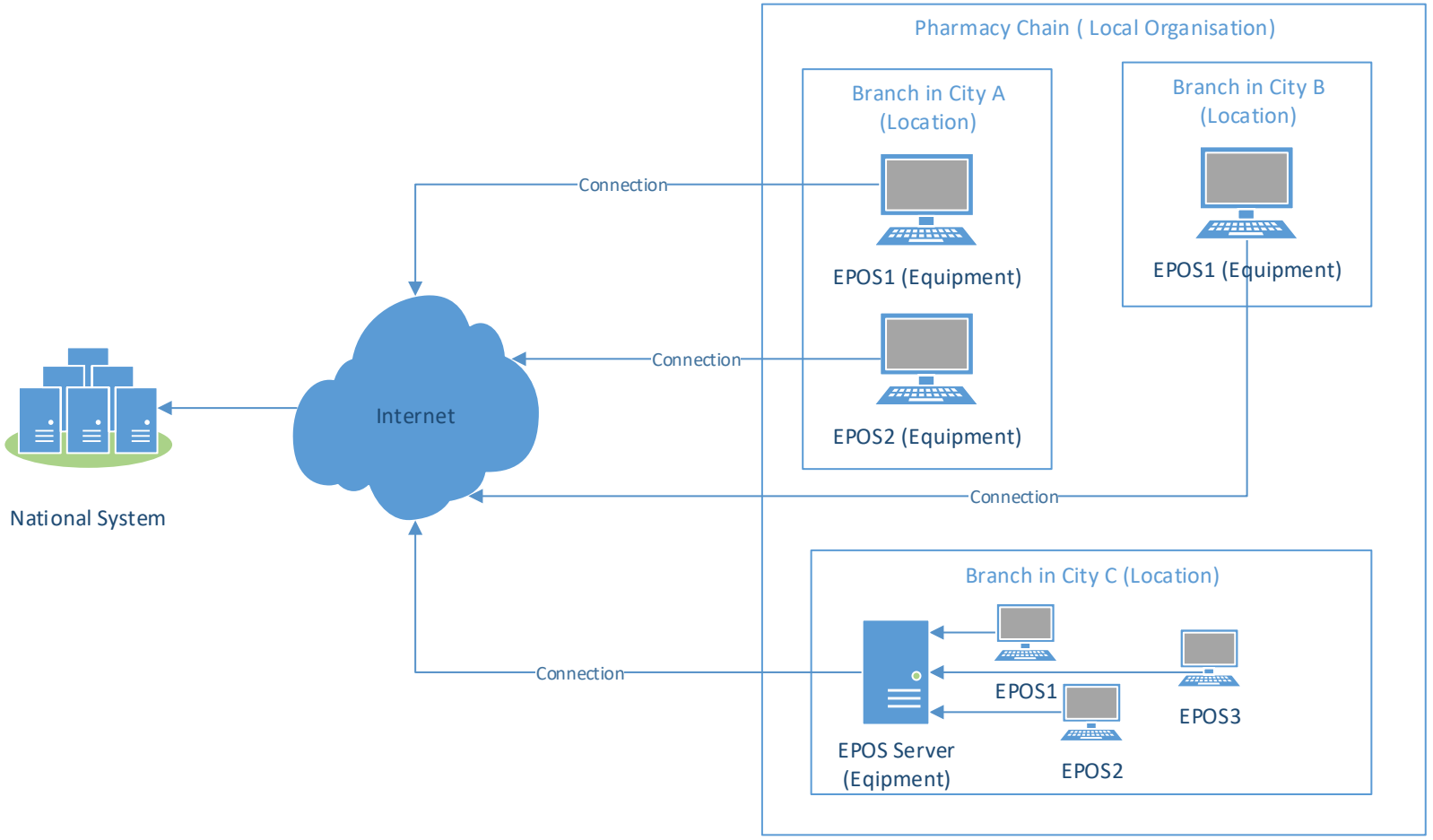
3. Click 'Approve' button to approve the changes, or 'Close' to cancel out.

Click 'Reject' button to reject the changes, or 'Close' to cancel out

REPLY SOLIDSOFT

Location Management – Client Equipment Credentials

- **Allocation of Client System Credentials to your IT System is the responsibility of your IT Supplier.**
- **Each independent terminal is considered a unique piece of equipment and must be issued credentials individually.**
- **Independent terminals at the same location have a different equipment name but the same location name.**
- **A pharmacist at a location with two terminals may, if they wish, use one terminal to supply a pack and the other to reactivate the same pack, however the pharmacy cannot reactivate a pack from a different location even if it is within the same user organisation.**
- **A Local Organisation may have many locations and each location may have many pieces of equipment (client systems) , see diagram.**
- **Users should be aware that each time client credentials are presented to the NMVS, this represents a formal confirmation by the Local Organisation as to the location of the client system and the equipment which is connecting to the NMVS.**
- **This confirmation is mandated by the EMVS requirements in order to comply with the EU Delegated Regulation.**
- **Any misrepresentation may be deemed an abuse of the system by the NMVO and/or the national competent body.**



Location Management – Client Equipment Credentials (2)

- Client System Credentials are used during a request for an access token to the NMVS.
- Access tokens represent authorisation of the system to perform actions against the NMVS. The access tokens expire every 30 minutes.
- If a client is suspended any access token remains valid until it expires, so a suspended client may continue to access the system for up to 30 minutes.
- A suspended client may still be issued with a new access token, but any attempt to perform a transaction with the verification or reporting API will fail with an unauthorized response.
- Should the equipment be deleted then a new set of Client System Credentials need to be generated and applied before that client can request a new access token.
- The secrets for credentials can be managed, whereby a fully-functioning alternative secondary secret can be generated to work with the same client ID as for the primary secret. Management includes regenerating new secrets and swapping between assigned primary and secondary secrets.

Note:
The NMVS does not authenticate users of client systems. This is the responsibility of the client system. No mechanism is provided to client systems to inform the NMVS about the user of the client system or their roles or permissions. The NMVS does not record any information about the local user.

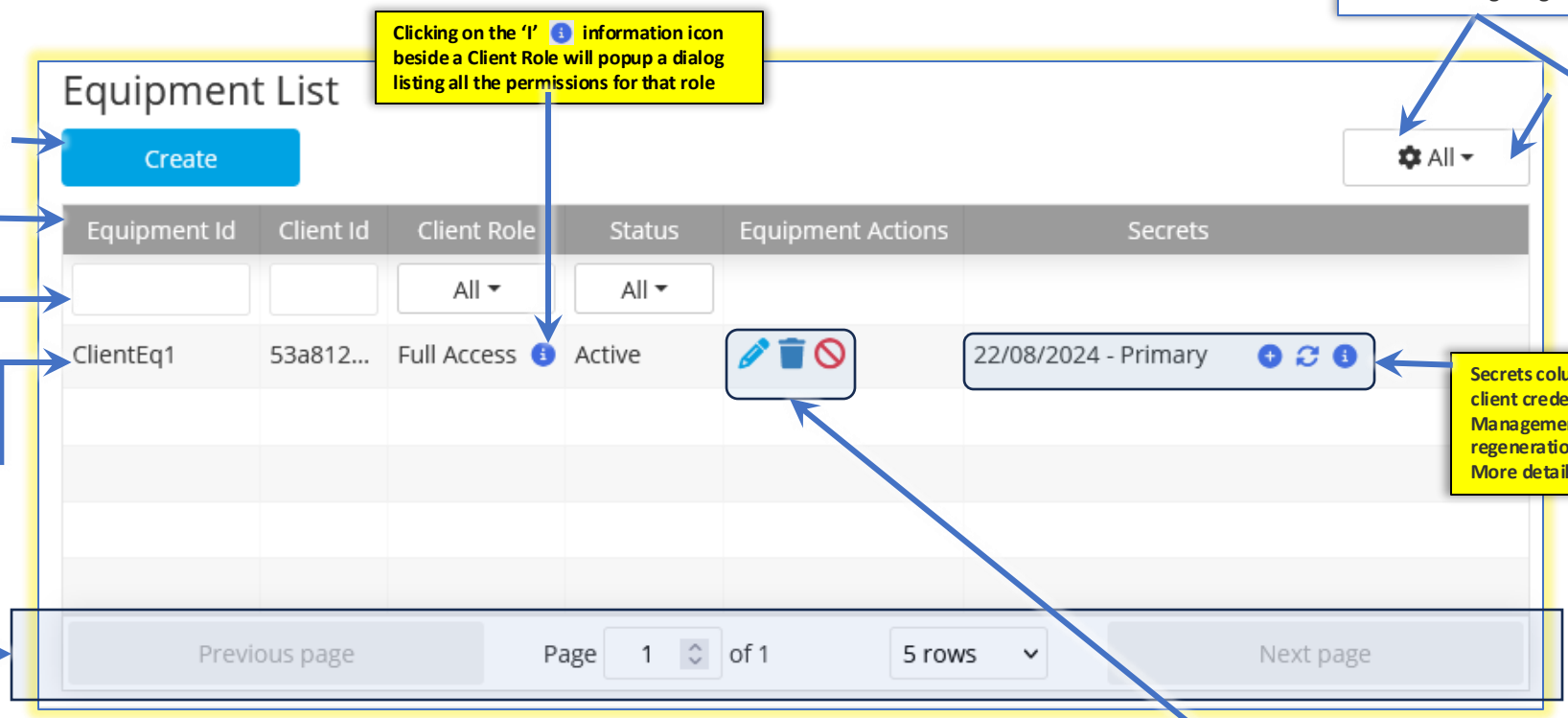
REPLY SOLIDSOFT

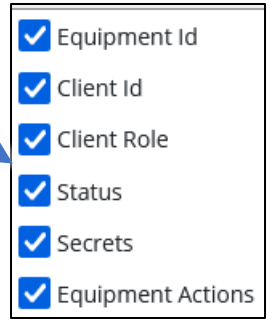
Location Management - Add Client Equipment (1)

Table shows list of equipment that belong to one location

Columns can be selected / displayed by clicking 'All' and configuring

Clicking on the 'I' information icon beside a Client Role will popup a dialog listing all the permissions for that role





Click the 'Create' button to open the dialog to add client equipment.

Columns can be sorted by clicking on column name

Columns can be filtered by typing valid value into textbox, or selecting from dropdown

Following the creation of the credentials, the Client Equipment table is now populated with the new equipment.

Secrets column shows the type of secret for a particular client credential, and the last time it was generated. Management of secrets can be done here including regeneration, swapping and deletion (secondary only). More details in other slide.

Controls to scroll through more than one page, how much equipment to display on one page, etc.

Actions that can be performed on Client Equipment. Client equipment management is described in other section.

To edit a Client Equipment

To delete a Client Equipment

To suspend a Client Equipment

To reinstate a suspended Client Equipment

REPLY SOLIDSOFT

Location Management - Add Client Equipment (2)

1. Enter the 'Equipment Id' for the item of equipment that will be used to perform pack operations.

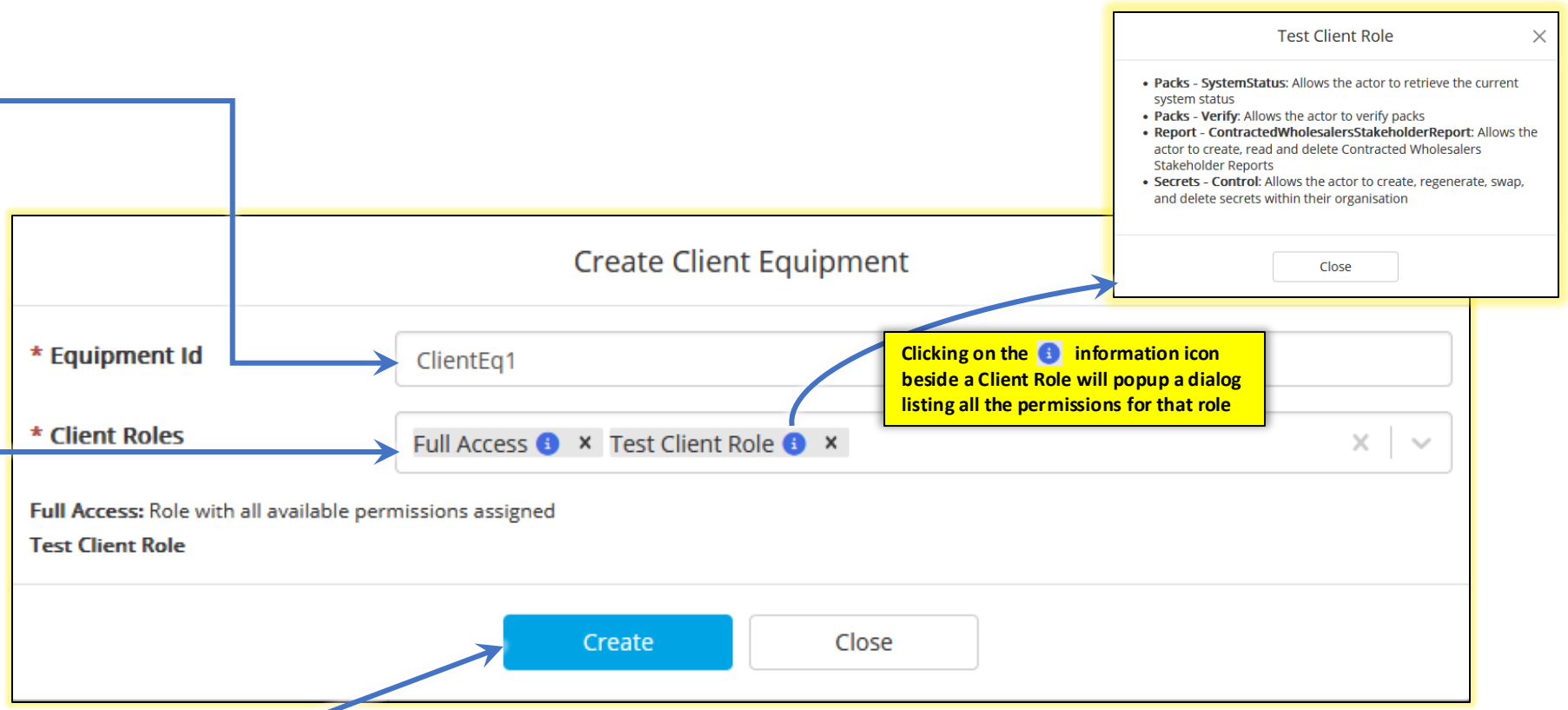
   This may be, for example, "POS Terminal 1", and may be informed by the Client System naming convention in place.

2. A client role may be selected to define what parts of the system the equipment has access to. These roles are previously defined in the "Client Roles" area of the system.

   Both Client Role and Equipment Id are mandatory and must be defined before 'Create' button is enabled.

   More than one role can be selected.

3. Click "Create" to create the Client System Credentials.



Location Management - Add Client Equipment (3)

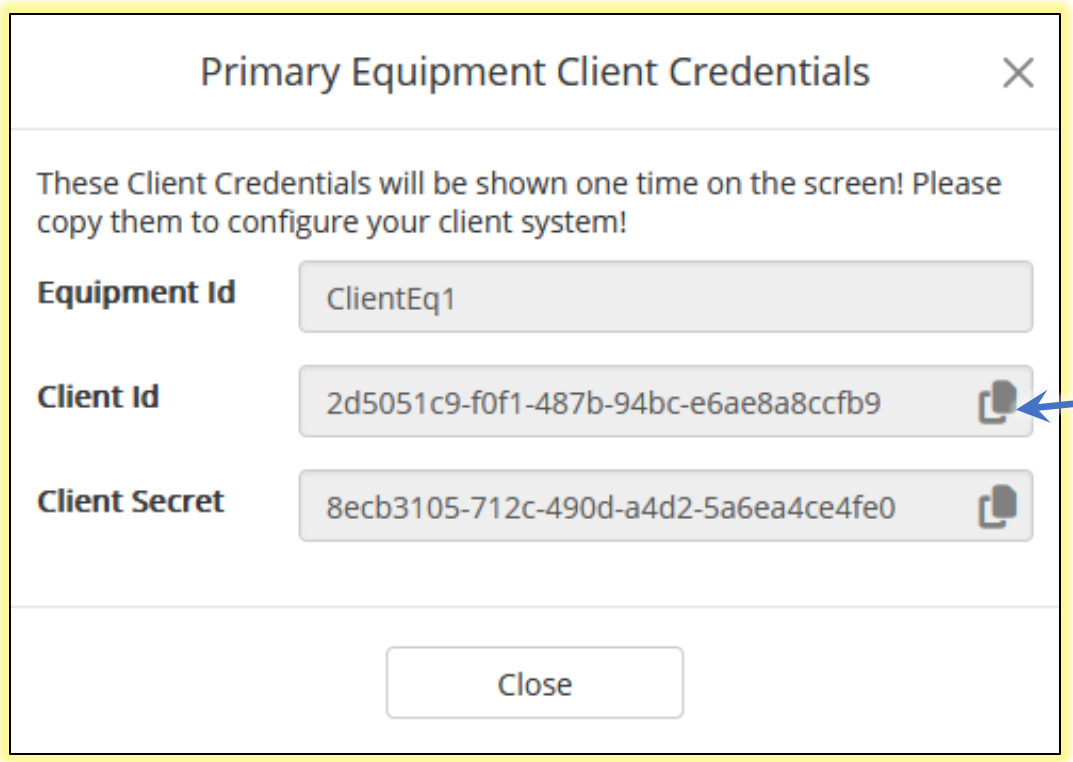
1. Client System Credentials consist of a Client ID and a Client Secret. These credentials need to be provided to the responsible owner of the IT System of the Local Organisation.

2. The first time client equipment is created, primary client credentials are created by default. It is possible to create a secondary secret for the same credential (client id), and both secrets can be valid and used freely.

3. NB: The full Client Secret is only displayed ONCE. If the screen is closed before recording it against the Client ID then the secret can be regenerated (see secret management slides)

4. When the credentials have been recorded, click 'Close' to close the window.

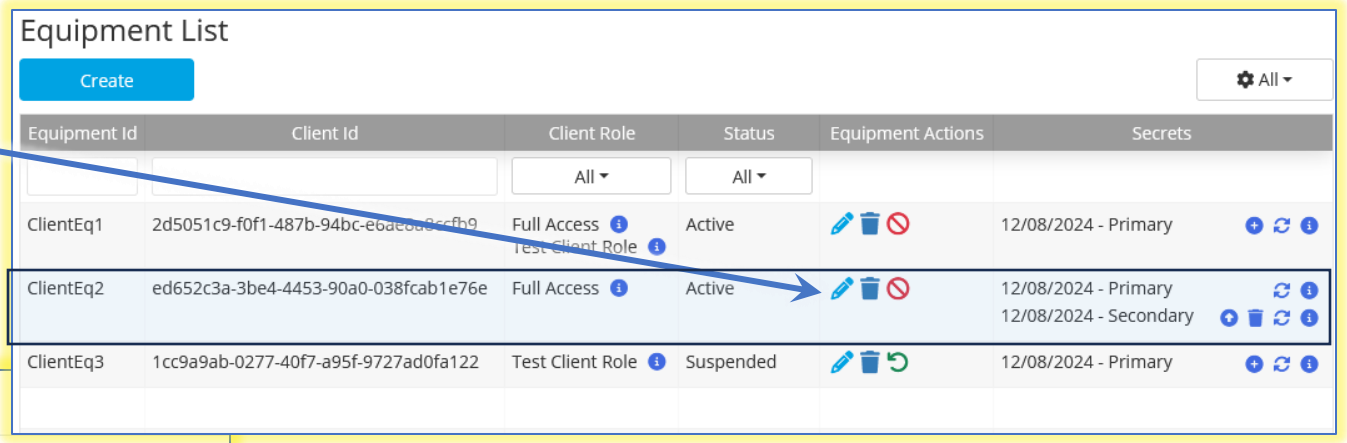
5. The credentials are sensitive and should not be shared with any party not directly involved in the Client System connection process.



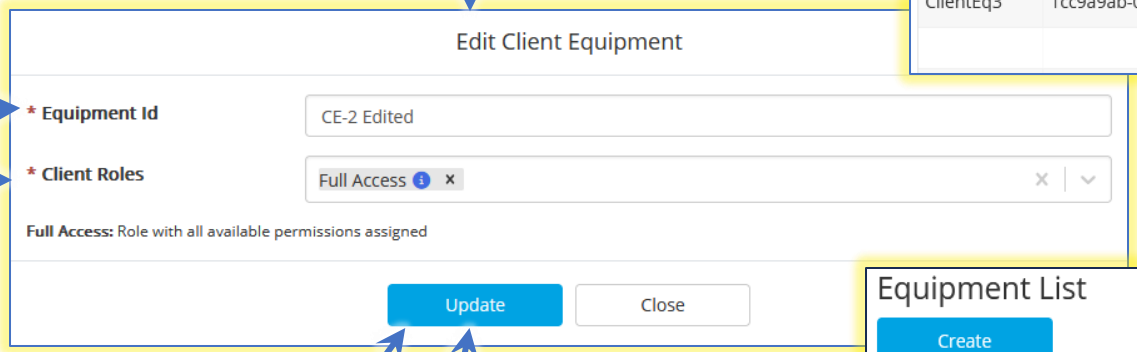
Clicking this icon will copy the credential to the clipboard.

Location Management - Edit Client Equipment

Location details dialog

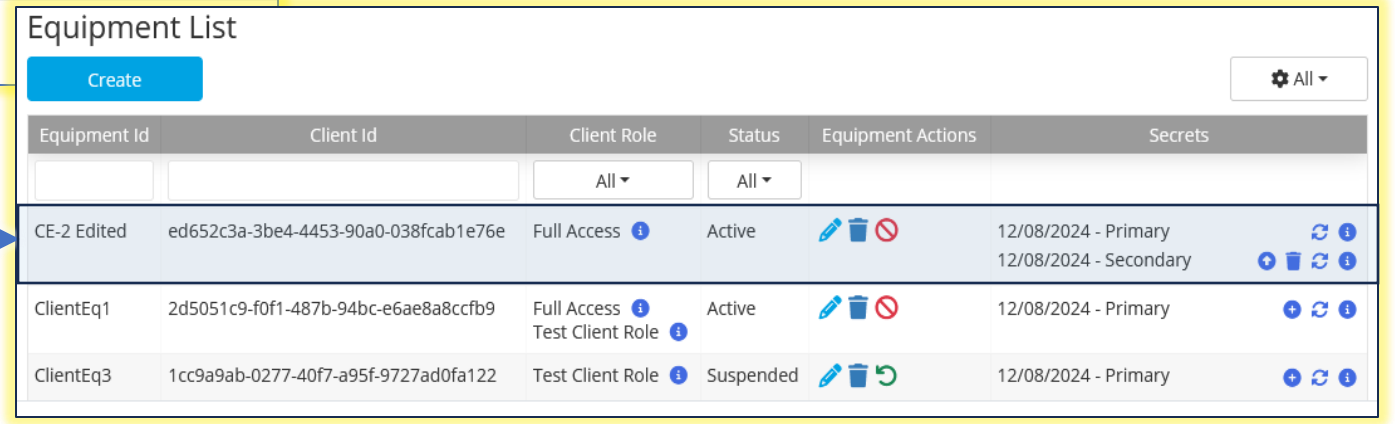


1. Clicking the Edit icon will display the 'Edit Client Equipment' dialog popup.



2. Make any change to the Equipment Id or the list of Client Roles. This will enable the 'Update' button. In this example, the Equipment Id is changed to "CE-2 Edited".

3. Click 'Update' button. User will be returned to Location details dialog and the Client equipment record will be updated to reflect the changes.

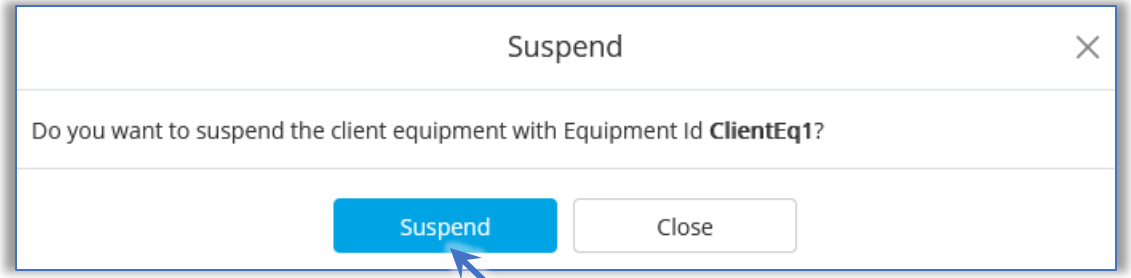


REPLY SOLIDSOFT

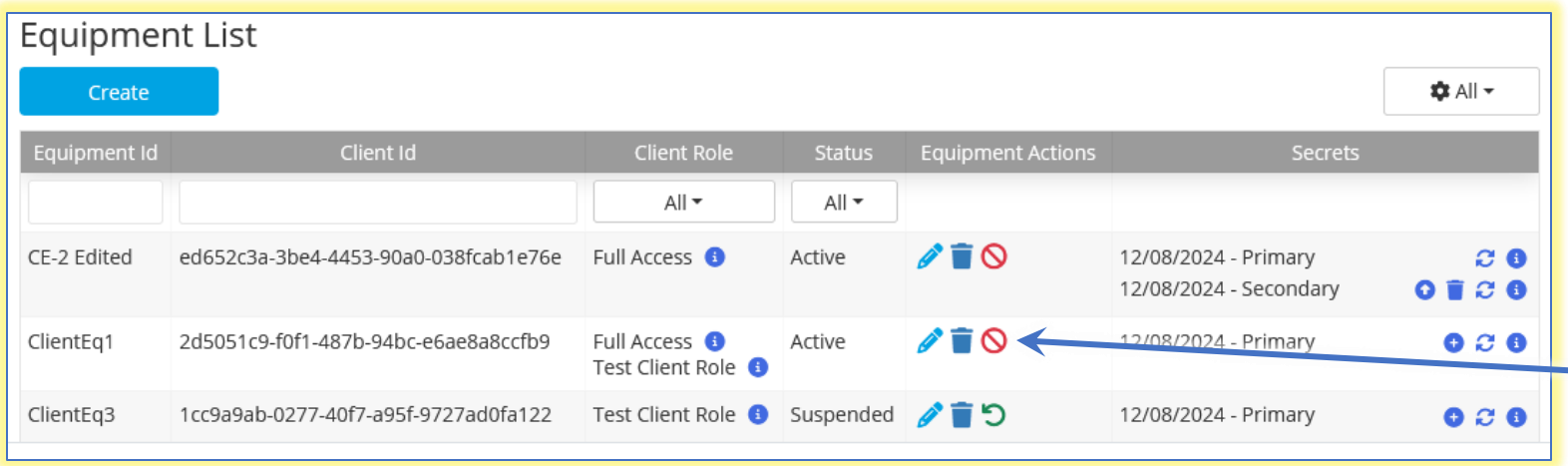
Location Management - Suspend Client Equipment

There may be circumstances in which it is necessary to Suspend Client Equipment.

Suspending client equipment causes any requests made from that equipment to the NMVS to be rejected.



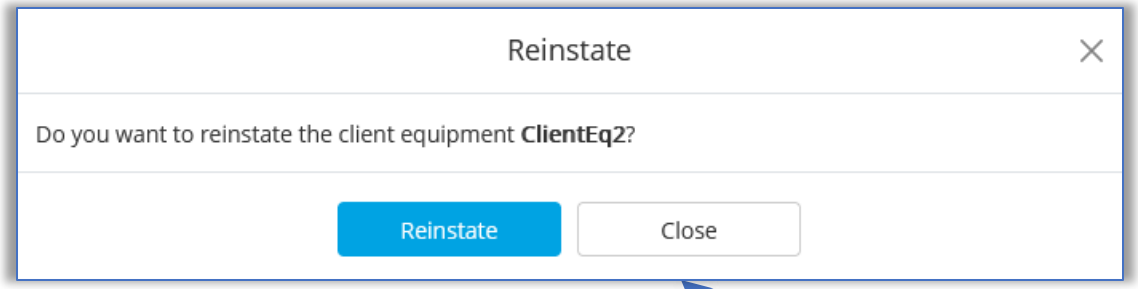
A confirmation window will prompt the user to confirm that the equipment is to be suspended. To enact the suspension, click 'Suspend'.

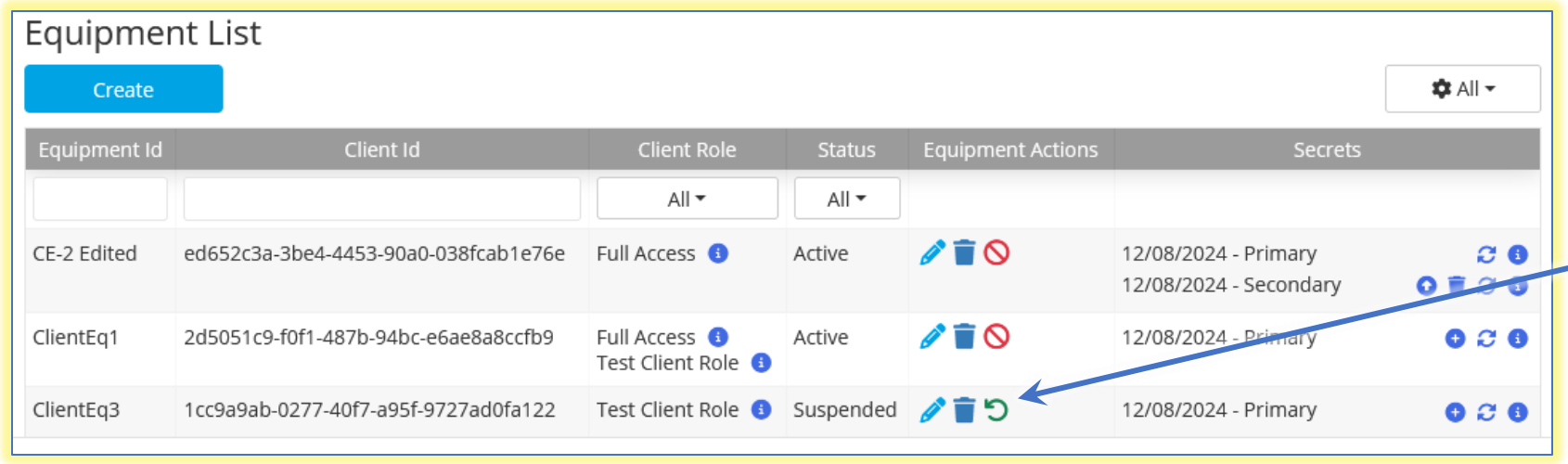


To suspend client equipment, click the 'Suspend' icon against the equipment to be suspended.

Location Management - Reinstate Client Equipment

Suspended Client Equipment may be reinstated, allowing requests made from that equipment to the NMVS to be accepted.



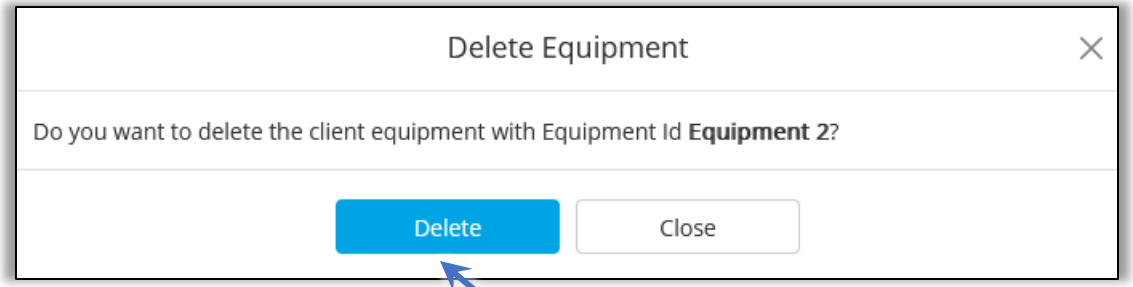


To reinstate client equipment following a suspension, click on the 'Reinstate' icon, then the 'Reinstate' button in the pop-up window.

Location Management - Delete Client Equipment

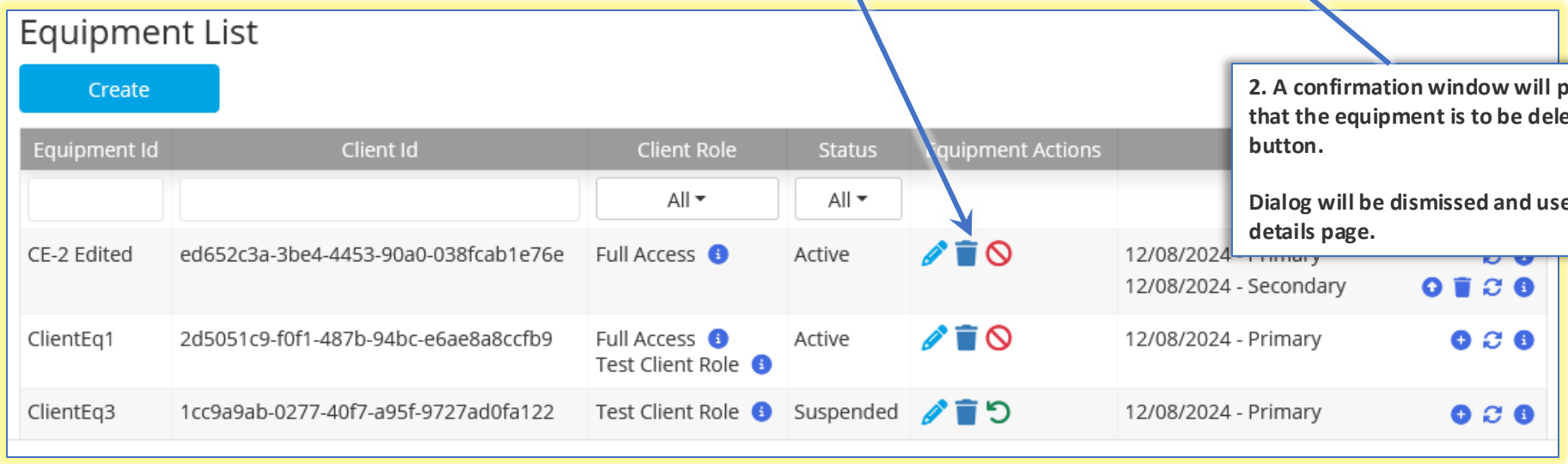
There may be circumstances in which it is necessary to delete Client Equipment.

1. To delete client equipment, click the 'Delete' icon against the equipment to be deleted.

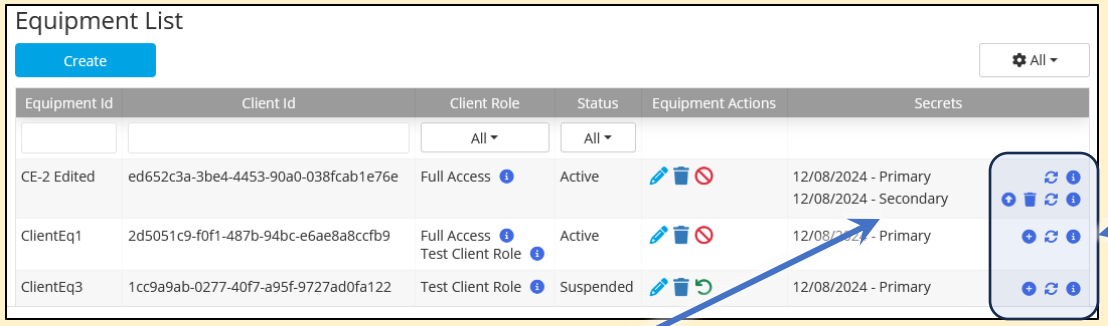


2. A confirmation window will prompt the user to confirm that the equipment is to be deleted. Click on 'Delete' button.

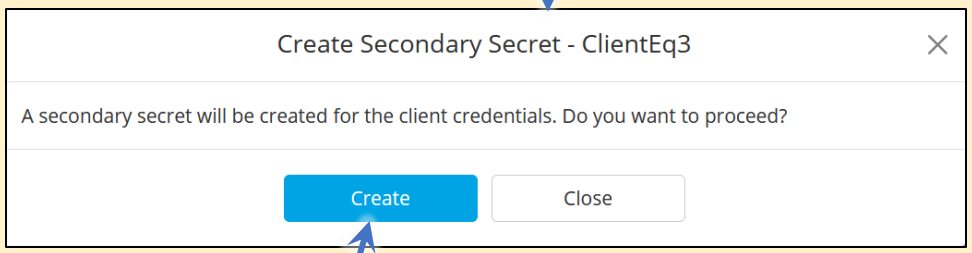
Dialog will be dismissed and user returned to Location details page.



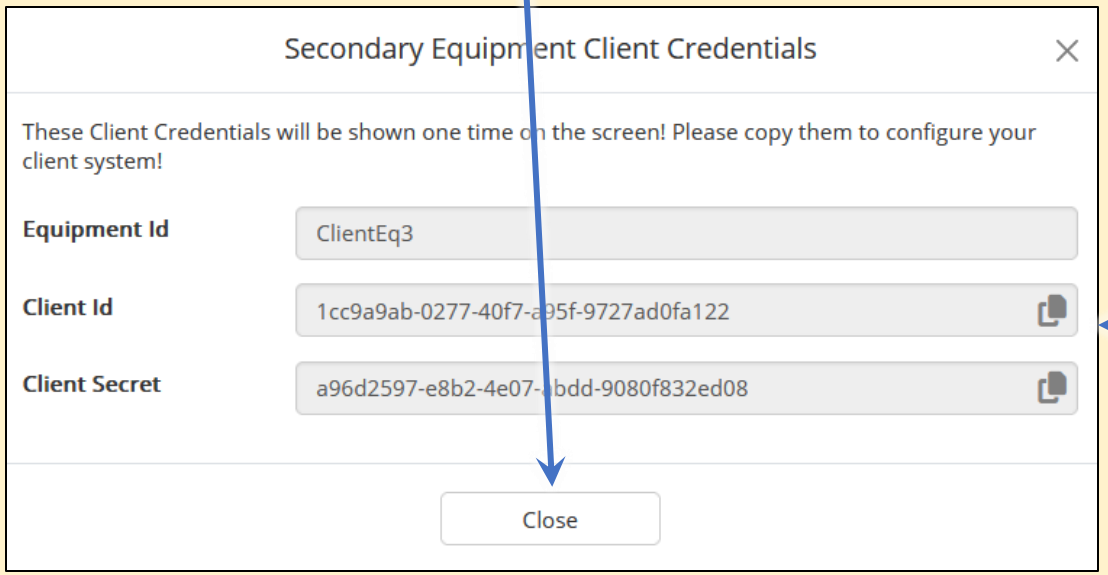
Location – Secret Management – Create Secondary Secret



1. When the plus icon is clicked the 'Create Secondary Secret' dialog pops up. Note that secondary secrets can be created for equipment that only has primary secrets

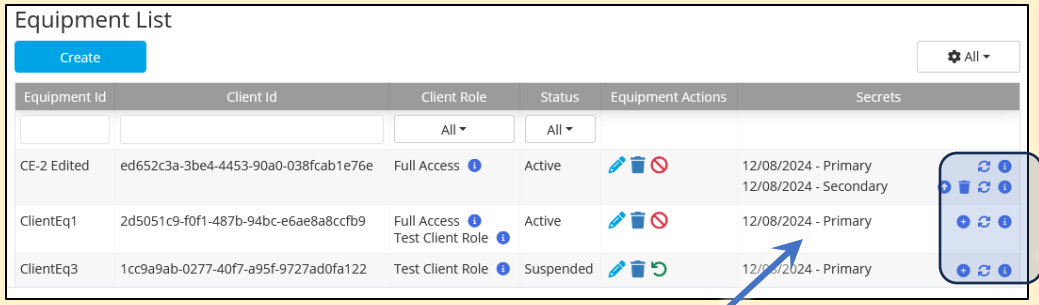


2. Click the 'Create' button to create the secondary secret. Details of the credentials including secondary secret will be displayed. Note that the client id is the same as for the primary secret, and the secret will be displayed only ONCE.



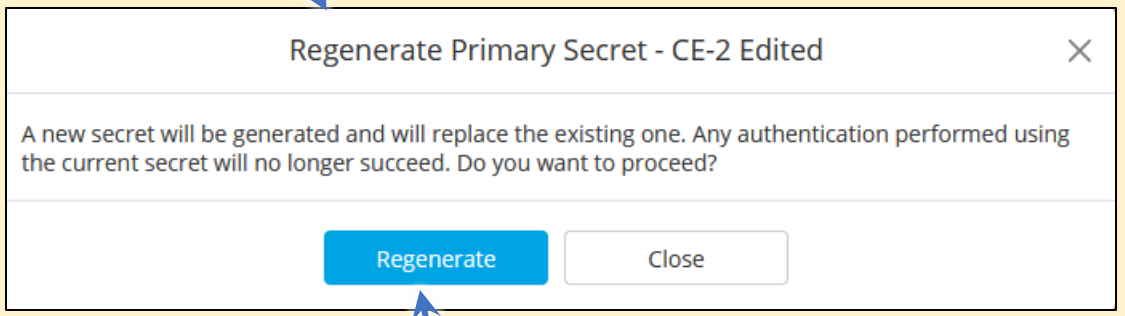
3. Click 'Close' to close the credentials popup and return to Location page. After the secondary secret is created, an entry appears in the Equipment table with the designation and date of creation of the secondary secret

Location – Secret Management – Regenerate Primary Secret



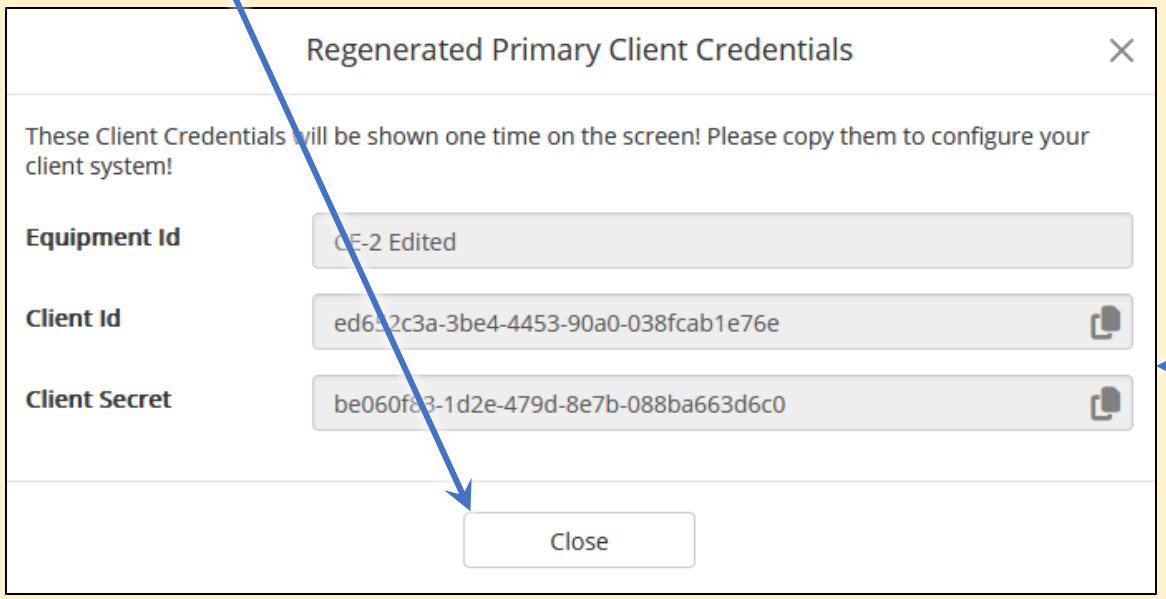
1. When the double arrow icon is clicked the 'Regenerate Primary Secret' dialog pops up.

Regeneration of secrets improves the security of end-user connections, facilitates regular renewal of authentication secrets and reduces risk of unauthorized access to the system.



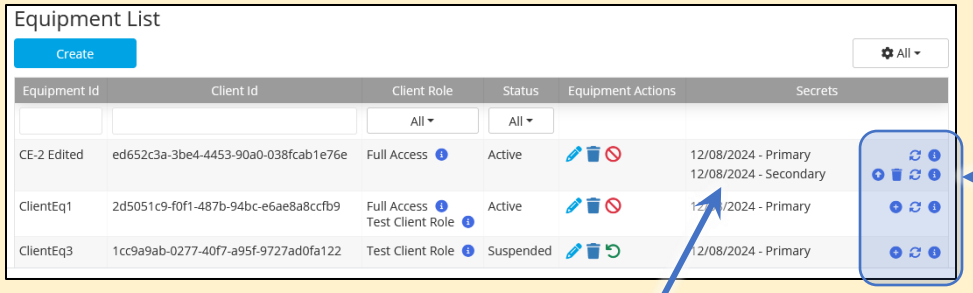
2. Click the 'Regenerate' button to confirm. Once the secret is regenerated, the old previous secret cannot be used ever again.

Details of the credentials with regenerated secret will be displayed. Note that the client id has *not* changed, and the secret will be displayed only ONCE.



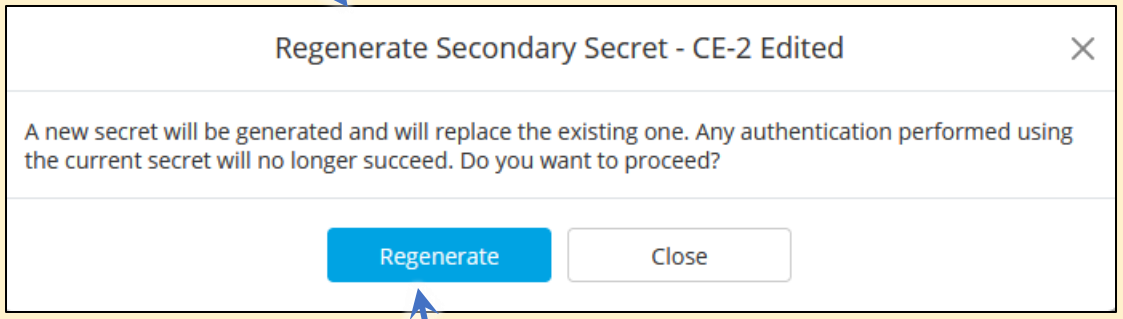
3. Click 'Close' to close the credentials popup and return to Location page. After the secret is regenerated, the date beside the secret in the Equipments table is updated.

Location – Secret Management – Regenerate Secondary Secret



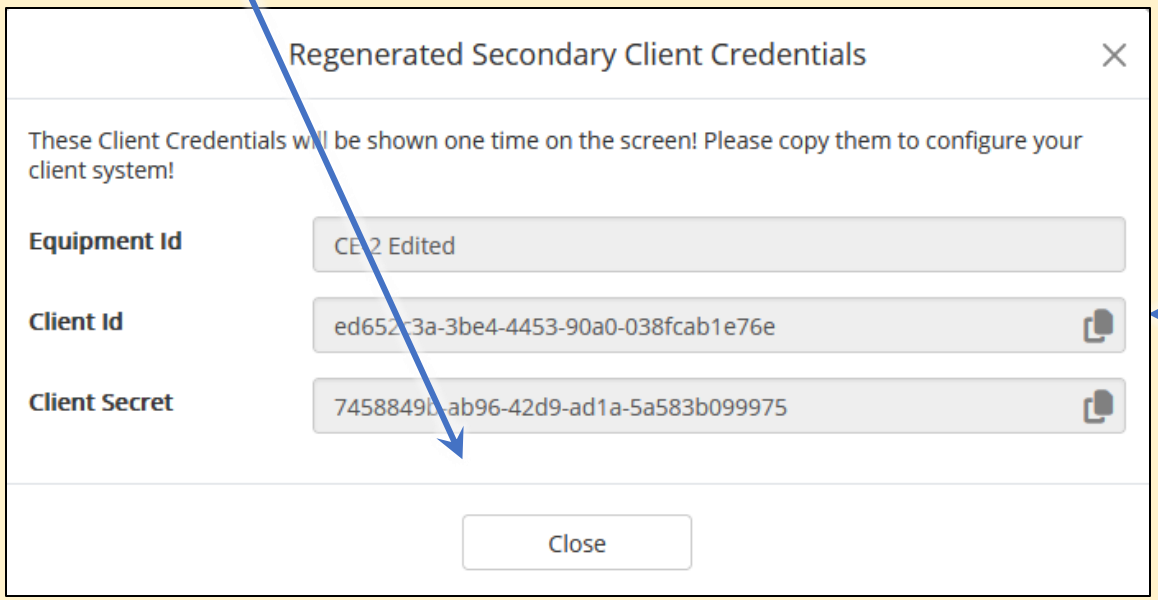
1. When the double arrow icon is clicked the 'Regenerate Secondary Secret' dialog pops up.

Regeneration of secrets improves the security of end-user connections, facilitates regular renewal of authentication secrets and reduces risk of unauthorized access to the system.



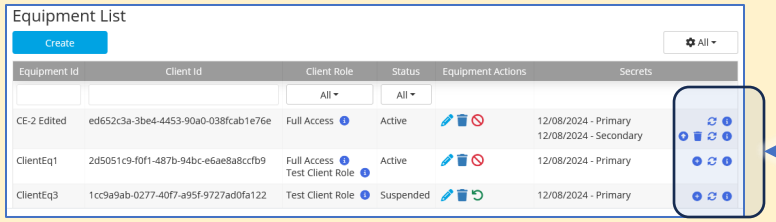
2. Click the 'Regenerate' button to confirm. Once the secret is regenerated, the old previous secret cannot be used ever again.

Details of the credentials with regenerated secret will be displayed. Note that the client id has ***not*** changed, and the secret will be displayed only ONCE.



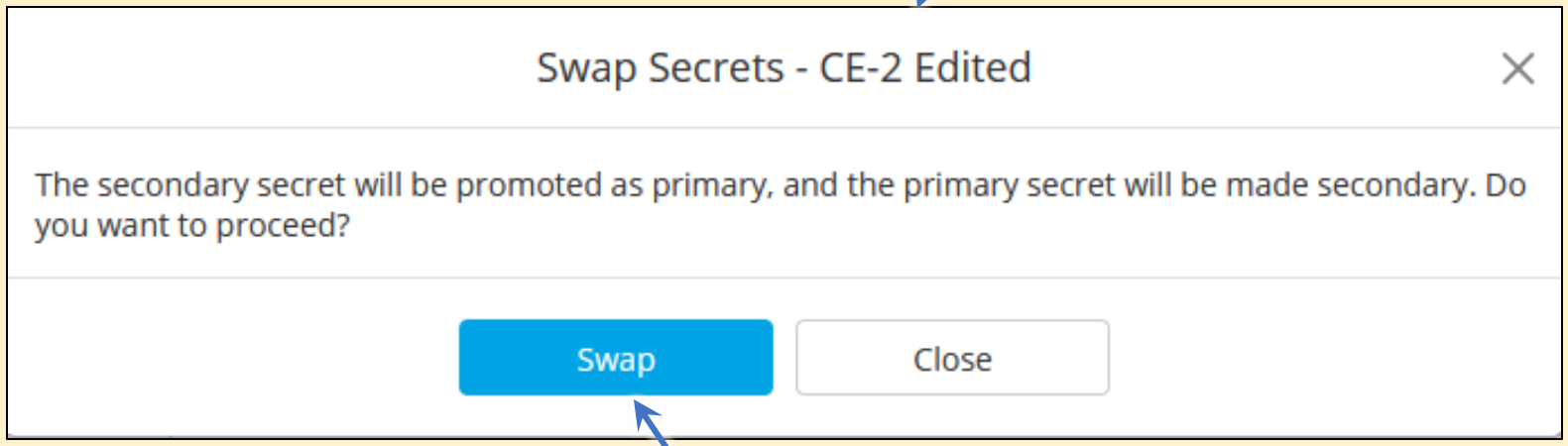
3. Click 'Close' to close the credentials popup and return to Location page. After the secret is regenerated, the date beside the secret in the Equipments table is updated.

Location – Secret Management – Swap Secrets



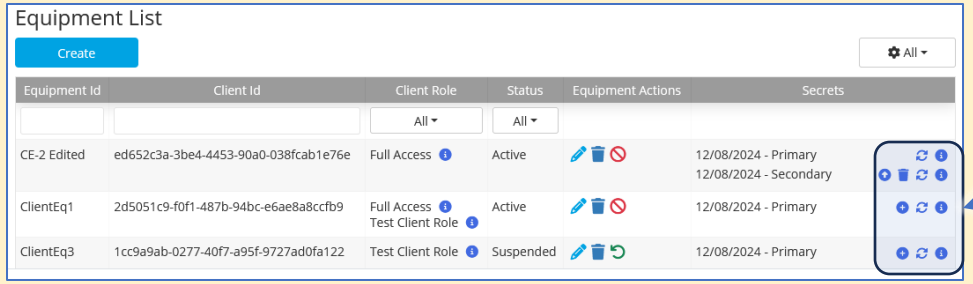
1. When the arrow up icon is clicked the 'Swap Secrets' dialog pops up. Note that the icon is only displayed for credentials that have both a primary and secondary secret.

Swapping secrets allows the designations 'Primary Secret' and 'Secondary Secret' to be exchanged. This should not affect the working of the secrets

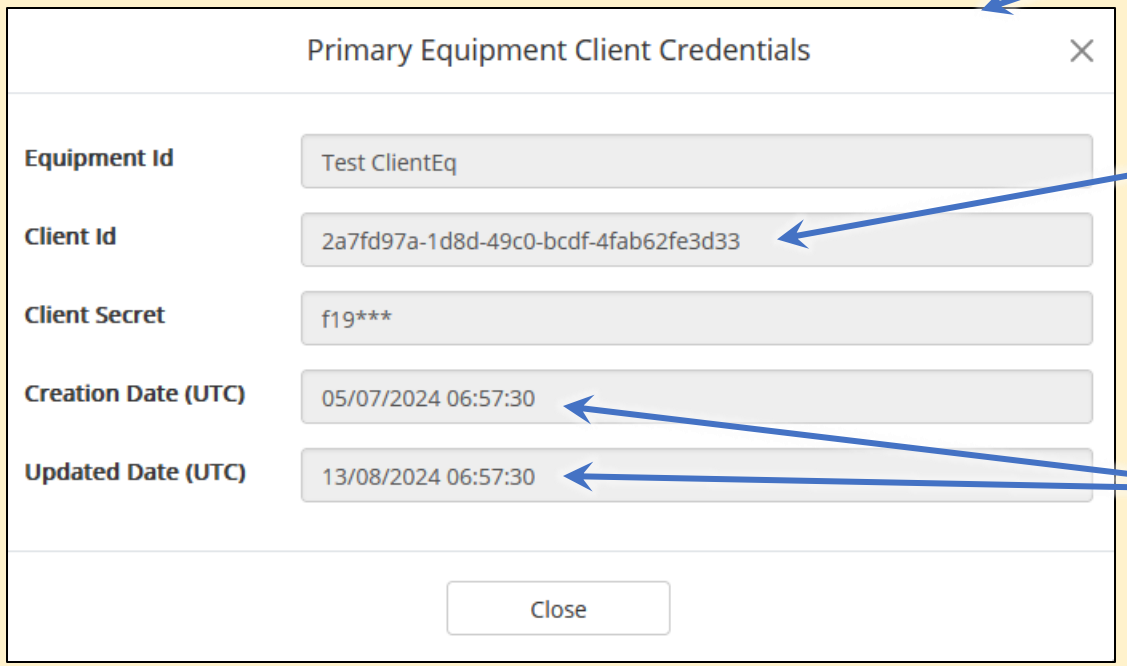


2. Click the 'Swap' button confirm that the secrets should be swapped. User is returned to the Equipments list page.

Location – Secret Management – Information



Clicking the information icon beside a secret will make the credentials information dialog popup. The same fields will be displayed for primary and secondary secrets.

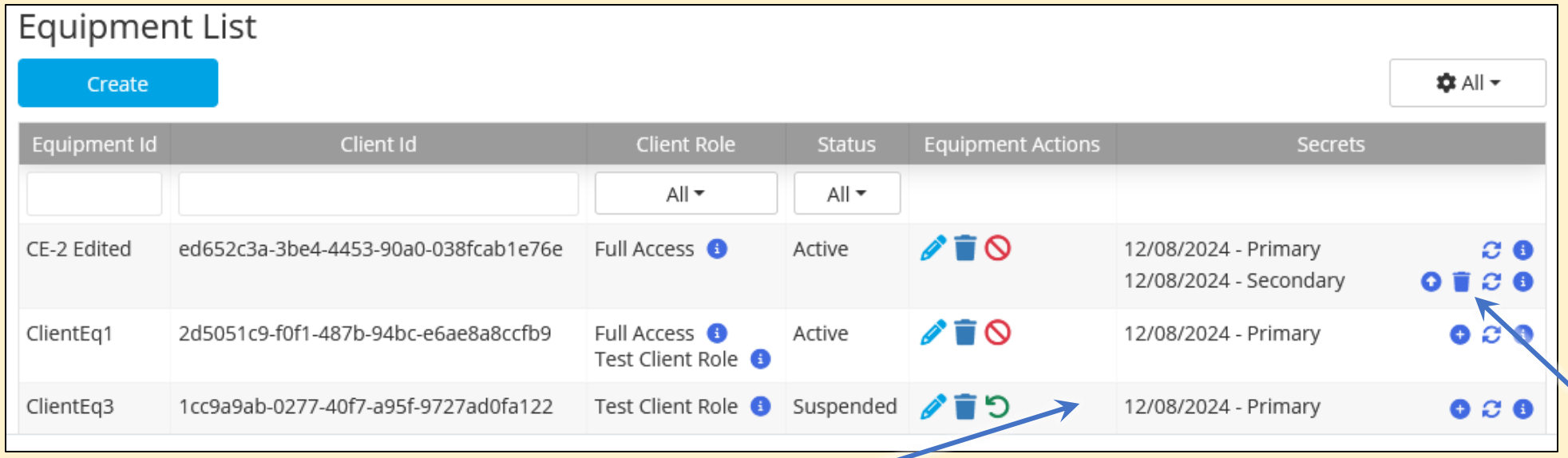


If an Equipment has two secrets, the ClientId will be the same for both of them

Note that the full secret is not displayed, only the first three (3) characters. If historical secrets exist pre-release 15 then six asterisks will be displayed '******'

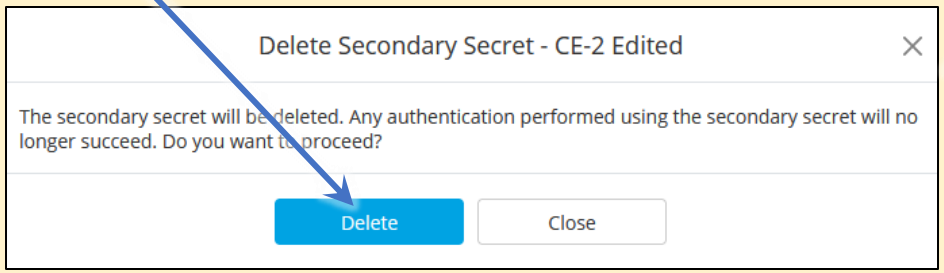
If the secret has been regenerated then this will be reflected in the 'Updated Date' timestamp. The Creation Date' timestamp is

Location – Secret Management – Delete Secondary Secret



1. When the trash icon is clicked the 'Delete Secondary Secret' dialog pops up. Note that primary secrets can not be deleted.

2. Click the 'Delete' button to confirm deletion. User will be returned to Location page Equipments tabl will be updated.



Reports Management

REPLY SOLIDSOFT

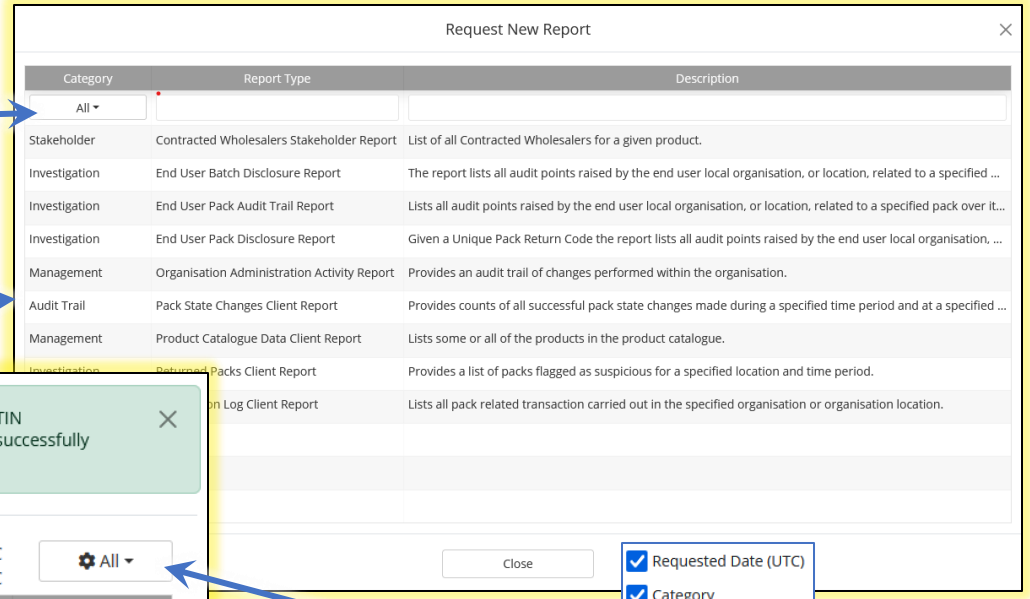
Reports – Main(1)

The Admin Portal has the ability to generate reports for users with sufficient account privileges. A user with the "Report/Control" permission will see a 'Reports' menu after login. NOTE: Reports can also be generated via the API

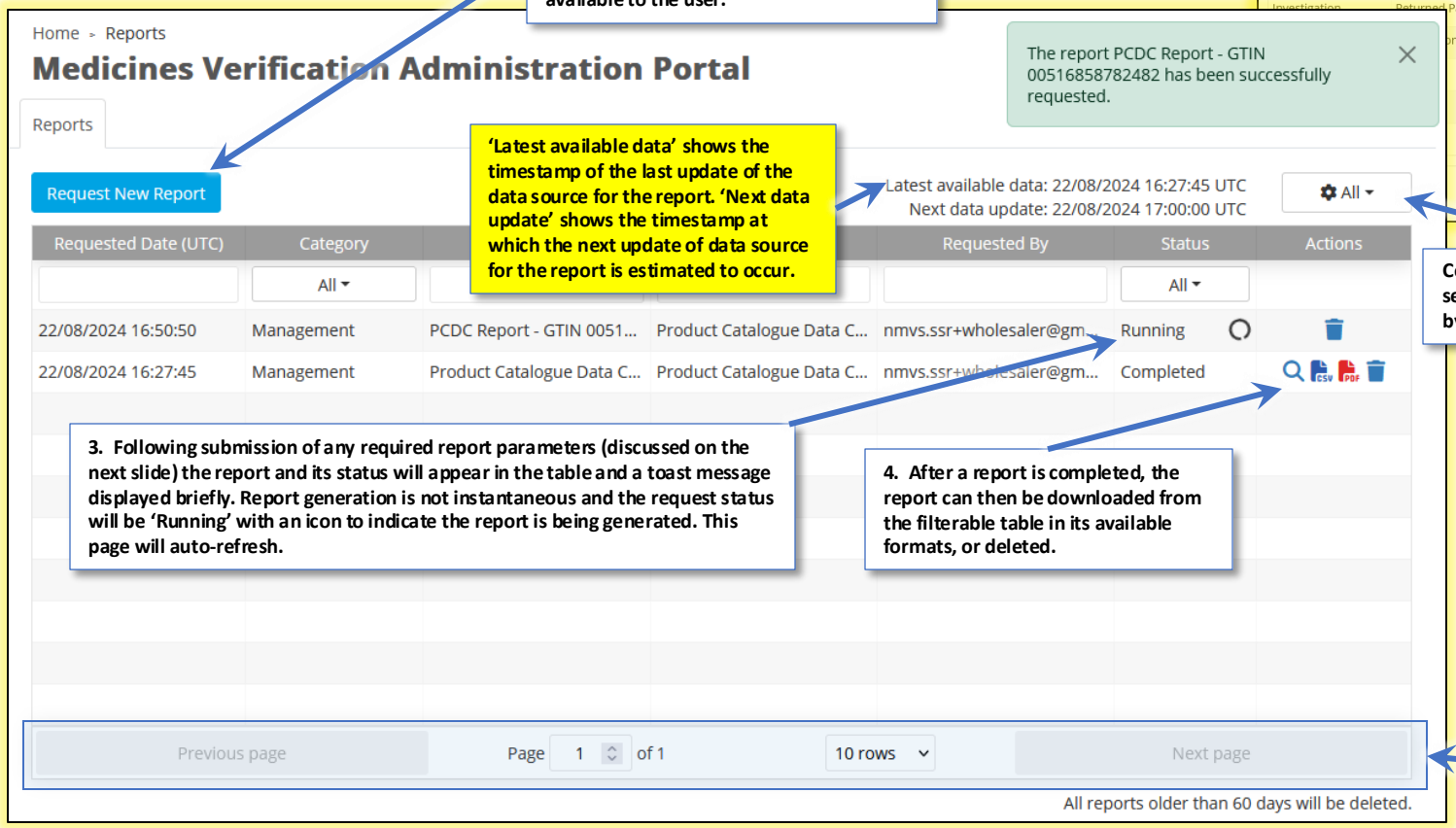
Navigate to Reports in the menu column.

Admin Portal reporting works as a two stage activity.

2. The user can filter by report category, type and description. To select the report to request click anywhere on the chosen report row. The user can press close to exit out of the request. A complete list of the reports available to request can be found in the Appendix.

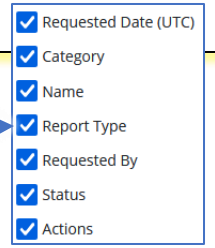


1. A report is requested by the user by clicking 'Request New Report'. A popup will appear with a list of the report types available to the user.



'Latest available data' shows the timestamp of the last update of the data source for the report. 'Next data update' shows the timestamp at which the next update of data source for the report is estimated to occur.

Columns in the table can be selected / unselected for display by clicking on the 'All' button



3. Following submission of any required report parameters (discussed on the next slide) the report and its status will appear in the table and a toast message displayed briefly. Report generation is not instantaneous and the request status will be 'Running' with an icon to indicate the report is being generated. This page will auto-refresh.

4. After a report is completed, the report can then be downloaded from the filterable table in its available formats, or deleted.

The table is paginated if there are enough generated reports. Use the next and previous page buttons to navigate or page jump. The user may also select how many reports are displayed in each page.

REPLY SOLIDSOFT

Reports – Main (2)

Location-based Report generation.

The list of generated reports that are displayed depend on the Locations that the logged in user is associated with (this is done in the User Management area). Users can only generate and view reports for the locations they are assigned to.
If two different end users are assigned the same subset of locations, both will be able to view reports generated by the other for the subset location(s).
If user has access to multiple locations within the organisation, end-user chooses which location reports should be generated for.
If there are no locations assigned (organisation user), then user can see all reports generated for the organisation.

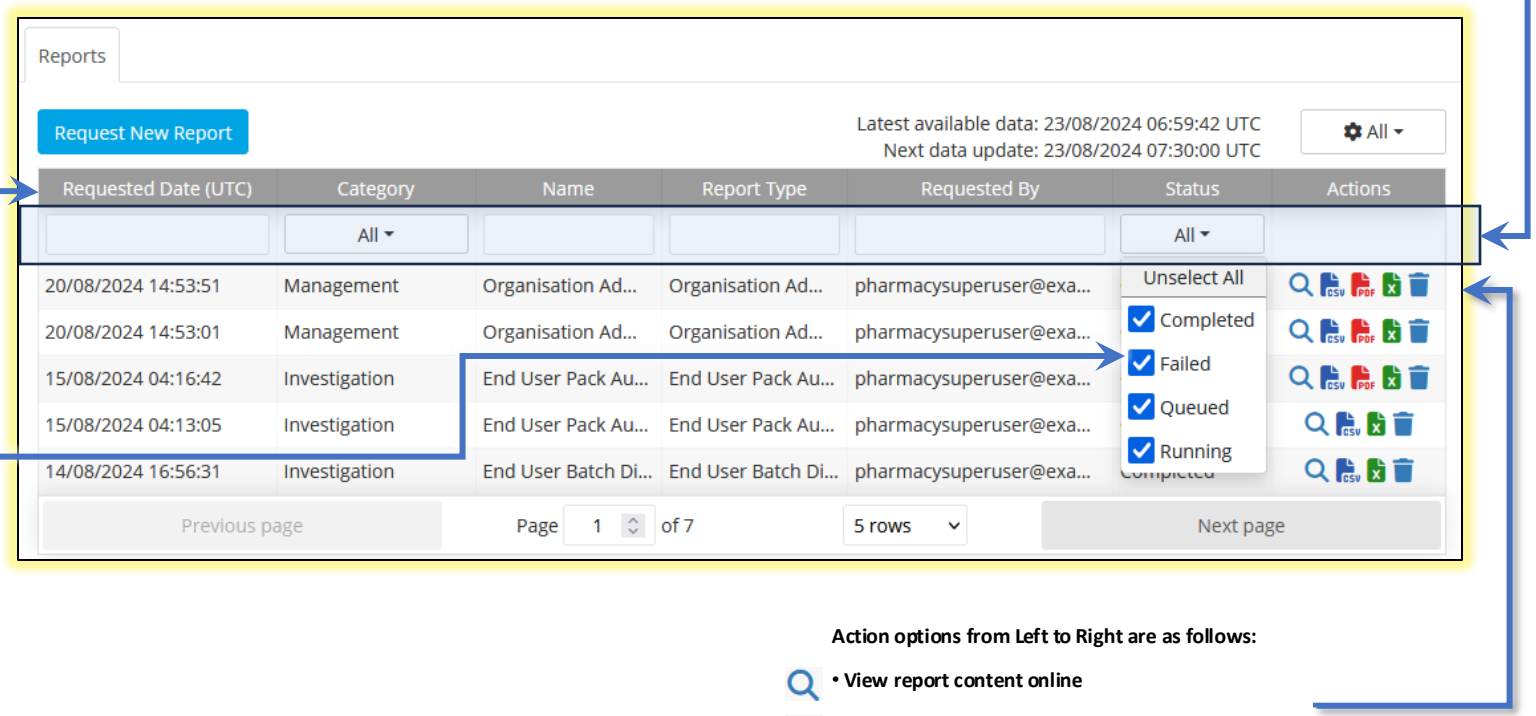
Reports that have been successfully requested will show in the filterable table of the Reports Home Screen.
Requested reports will exhibit one of four statuses:

a) **Queued: Report is waiting for batch processing.**
b) **Running: Report is being created.**
c) **Completed: Report is ready for download.**
d) **Failed: One or more report formats could not be created.**

When the status of a report changes to 'Completed' it may be downloaded in its full list of available formats. In some cases a format may fail to process. In this case a report's status will be listed as 'Failed', however, not all report formats may fail and if the icon is displayed that format was successful and can be downloaded.

Generated reports can be sorted by clicking on the column name

Generated reports can be filtered



Action options from Left to Right are as follows:

- **View report content online**
- **Download report as CSV file.**
- **Download report as PDF file.**
- **Delete report. (All reports older than 60 days will be automatically deleted.)**

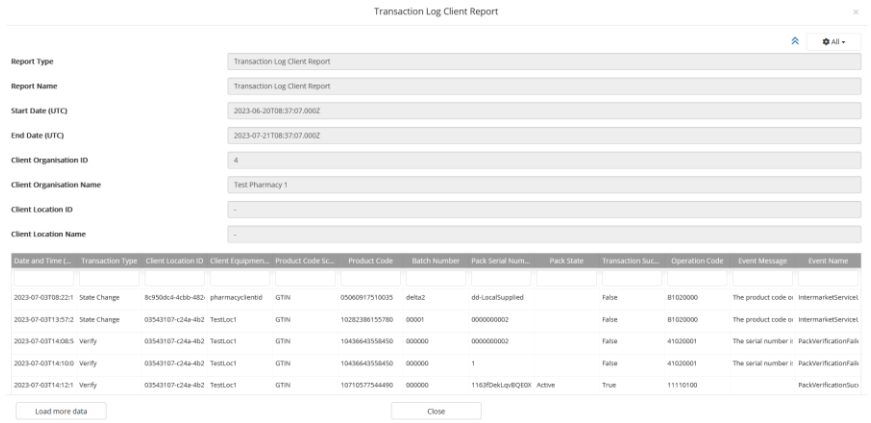
A report can be deleted by the user using the icons displayed in the 'Actions' column.
Note: It is not necessary to remain logged into the Admin portal while a report is completed. Users are at liberty to log out and in again while the report is being processed

Reports that have been successfully requested can be seen by any user that has Reporting rights associated with their user account.

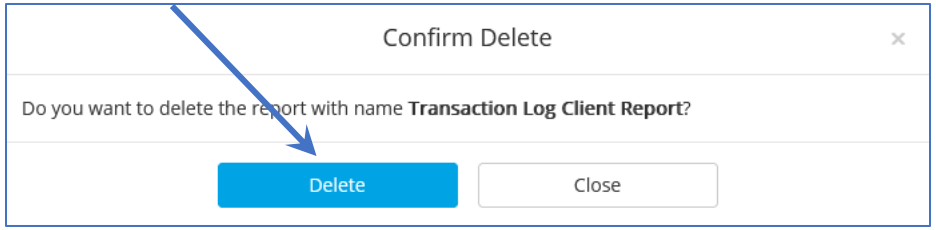
REPLY SOLIDSOFT

Reports - Report Actions

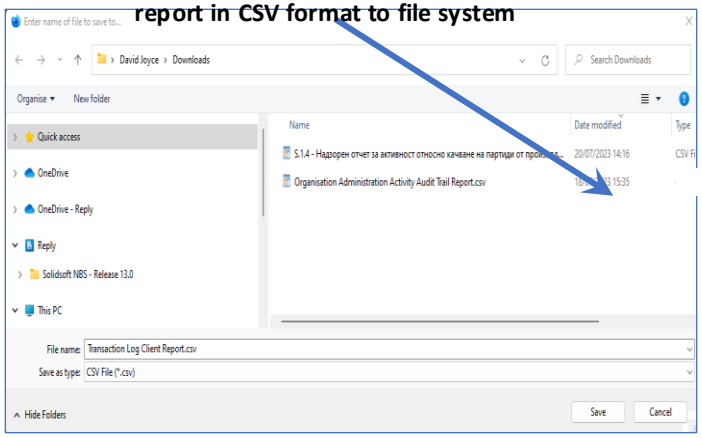
'View Report Content': The report will open as a table in a popup dialog, more details in later slide. This report example is the Transaction Log Client report



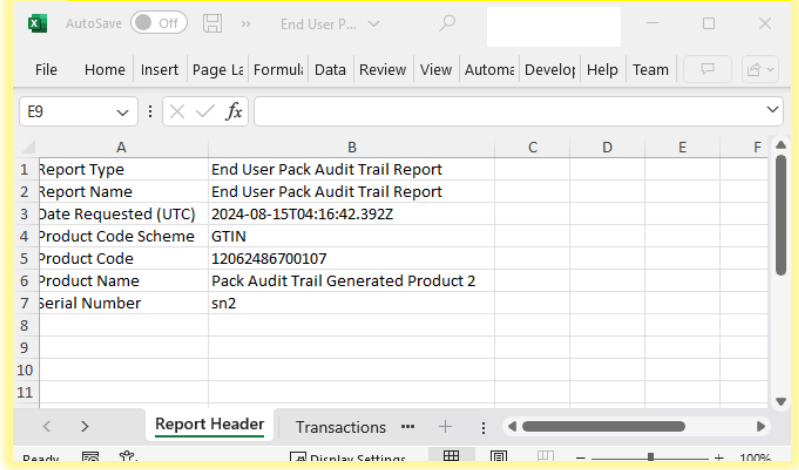
Delete the report (All reports older than 60 days will be automatically deleted)



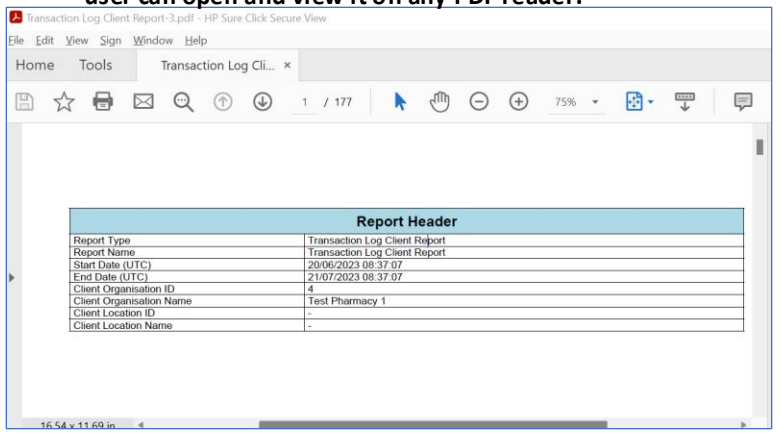
'Download as CSV': Clicking this icon will download report in CSV format to file system



'Download as Excel': Clicking this icon will offer option of opening report as an Excel file, or downloading to file system.



'Download as PDF': Clicking on the PDF icon will download the report and from there the user can open and view it on any PDF reader.

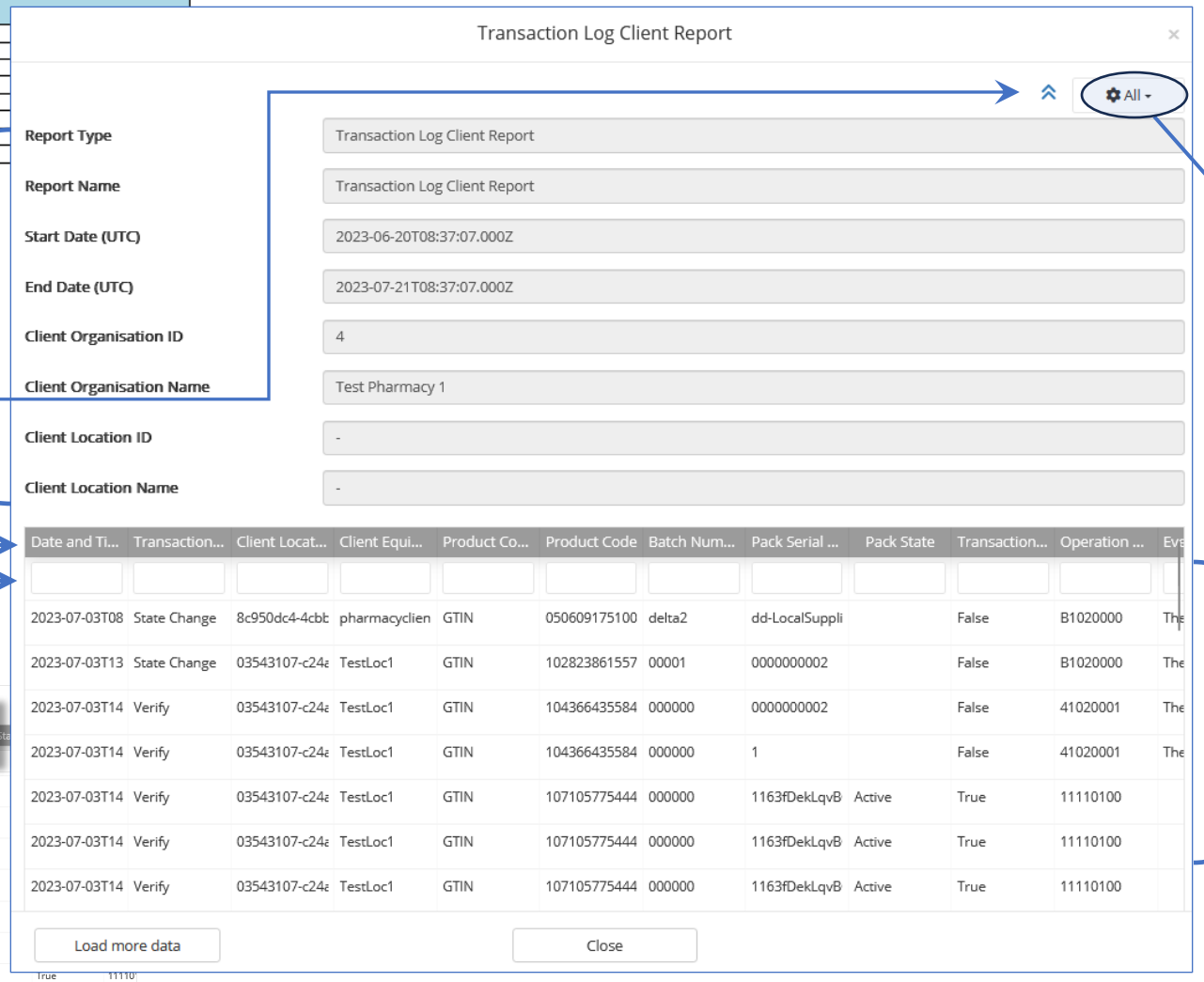


Reports – Report Actions - View Report Content

Report Header	
Report Type	Transaction Log Client Report
Report Name	Transaction Log Client Report
Start Date (UTC)	20/06/2023 08:37:07
End Date (UTC)	21/07/2023 08:37:07
Client Organisation ID	4
Client Organisation Name	Test Pharmacy 1
Client Location ID	-
Client Location Name	-

This section has the same information that is in the report header – the request parameters with which the report was generated.

This section can be expanded / collapsed by toggling the double chevron icon



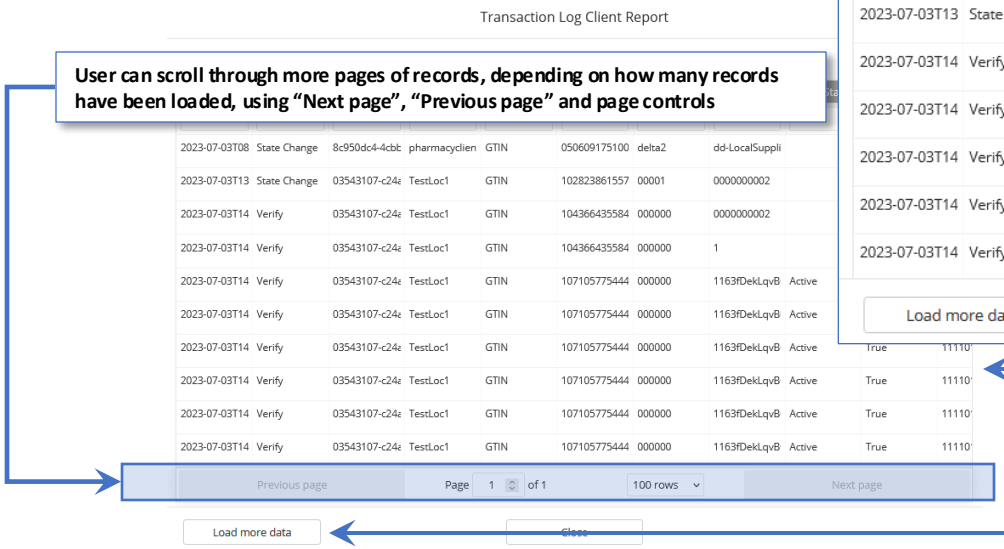
Columns can be removed or added using the filter setting. This feature is per report tab, not per report. Different tabs (representing different sections in the report) will have a different set of columns.

- Date and Time (UTC)
- Transaction Type
- Client Location ID
- Client Equipment ID
- Product Code Scheme
- Product Code
- Batch Number
- Pack Serial Number
- Pack State
- Transaction Successful
- Operation Code
- Event Message
- Event Name

Records are sortable

Columns can be filtered

Report Body – contains the report data



User can scroll through more pages of records, depending on how many records have been loaded, using "Next page", "Previous page" and page controls

Report with report header section collapsed

The amount of data (records) loaded is controlled. 10,000 records are loaded initially, then each time the "Load more data" button is clicked 10,000 more records are loaded, up to a maximum of 1,000,000

Reports - Submitting Report Parameters Example

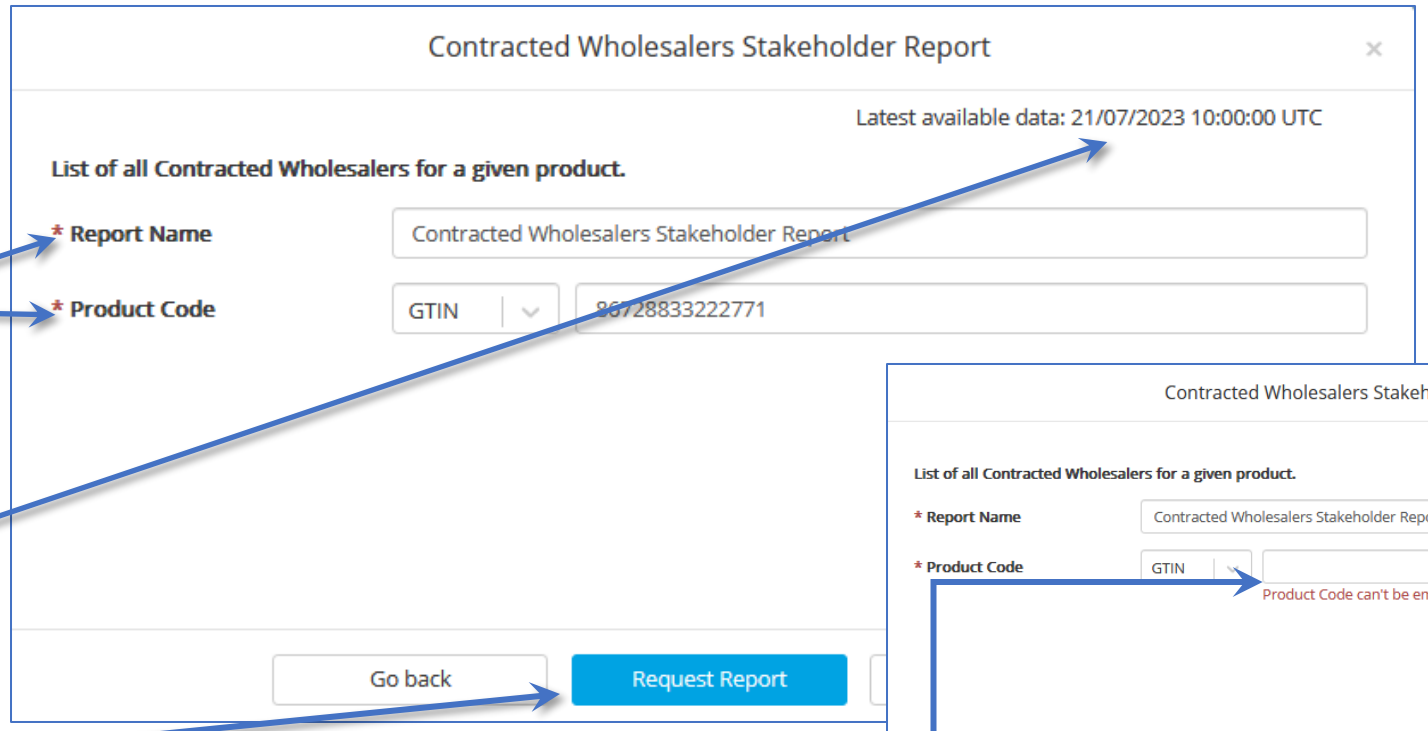
Once a report has been selected, additional information must be provided. The nature of any additional information will depend on the report type. For a full list of report types and the additional information required for each, please refer to the 'NMVS Report List' slide in Appendix.

The example provided is of a 'Contracted Wholesalers Stakeholder' report. The user must provide the mandatory fields (denoted by an asterisk *). They are:
- Report Name
- Product Code Scheme, and Product Code.

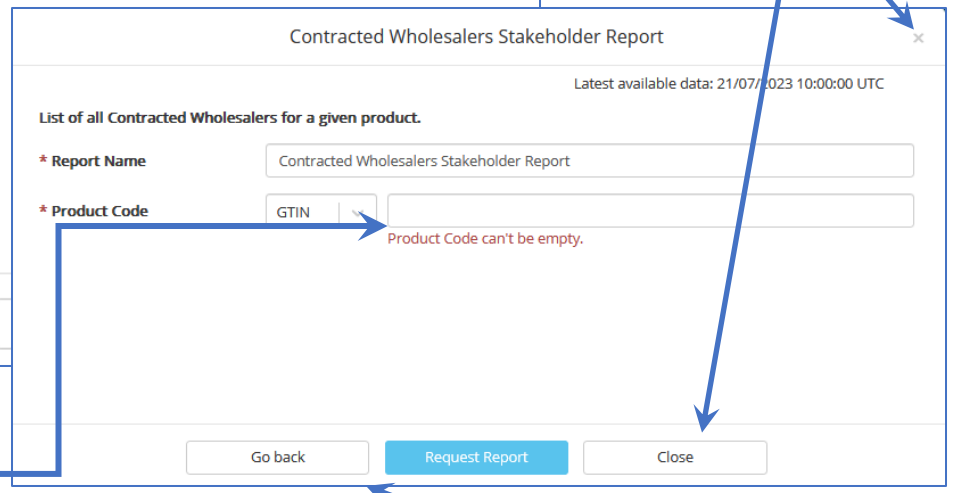
Depending on the source of data used to create the report, the information that will be captured in the report may not be up to date. The latest available data shows the timestamp of the last update of the data source for the report.

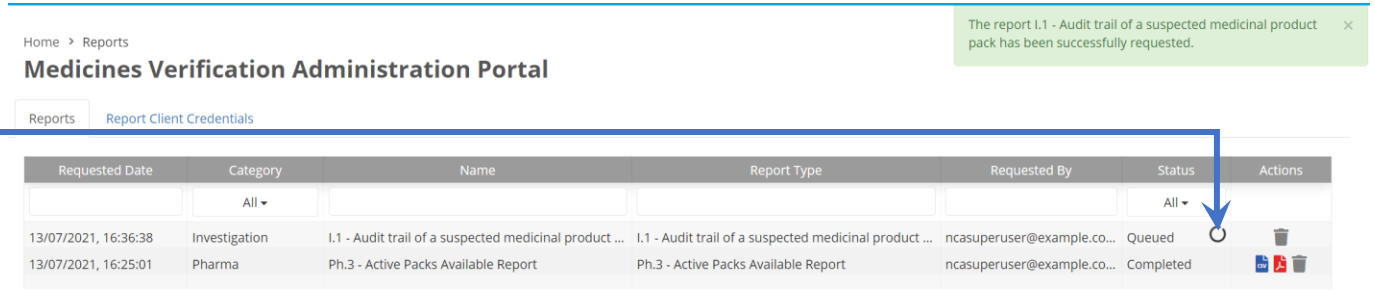
Once the additional information has been supplied, the user is required to click the 'Request Report' button. In this example a validation error is returned because the fields were not entered. Entering a product code will allow the user to successfully request a report. Similar validation errors will be returned for other reports and the user will be provided with a message to indicate why.

After successfully requesting a report, the user will be returned to the Reports Home Screen and the requested report will show as an entry in the table with a queued status.



The user can close the popup with the 'Close' or 'X' buttons.





The user can navigate back to the list of available reports with the 'Go Back' button

Reports

REPLY SOLIDSOFT

Reports - Pack State Changes Client Report

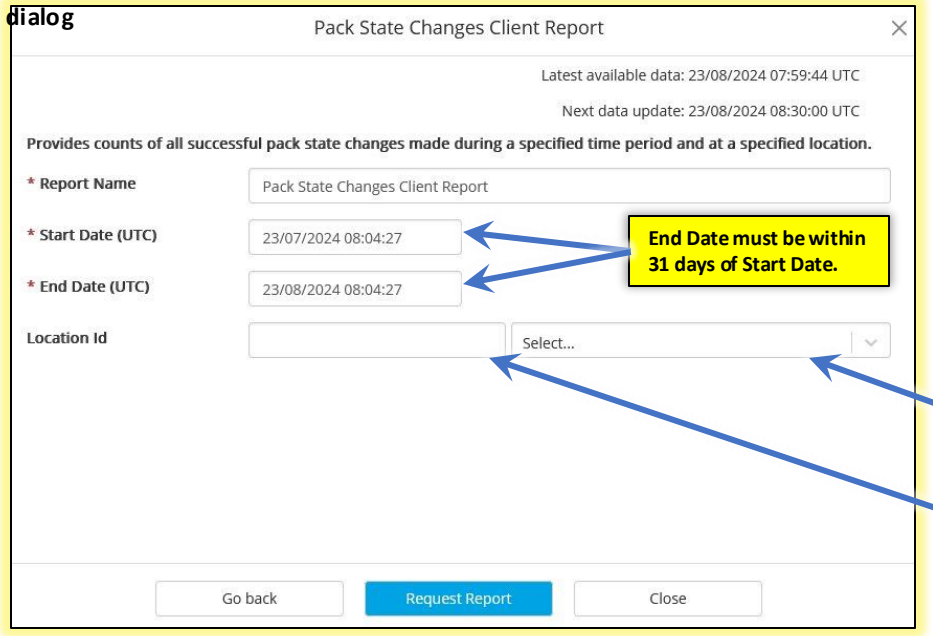
This report provides a count of pack state changes made during a specified time period at a specified client location. It is available via a networked API call into the NMVS (also available via Admin portal).

The first table in this report details parameters entered or selected by the report requester before the report was generated. Report output is based on this information.

Report Header	
Report Type	Pack State Changes Client Report
Report Name	Test NMVO report
Start Date & Time (UTC)	21/03/2019 06:13:59
End Date & Time (UTC)	22/05/2020 06:17:59
Client Location ID	47355EA8-CB34-4493-A874-6FC03530FC47

Note: Location Id is optional but if a User is linked to only one location the field will not appear on the request dialog and the User's location will be used implicitly. If a User is linked to more than one location, or is an organisational user, (no location assigned) the dropdown select list will only be populated with locations that the user has access to.

Pack State Changes Client report request dialog



Report Details	
Pack State	**Count**
Active	9
Destroyed	1
Exported	2
FreeSample	2
Locked	1
Sample	2
Supplied	2

Count of packs by each possible pack state.

Report is requested for this location. Any user that is assigned the same location, or an organisation level user (no set locations), can see the generated report. The dropdown beside 'Location Id' field contains all locations for the Local Organisation and can help in selecting / setting the correct Location Id.

If the actor requesting the report is a location user, then the list of locations IDs will be limited to their associated locations (or filter is not provided if the actor is only associated to 1 location).

REPLY SOLIDSOFT

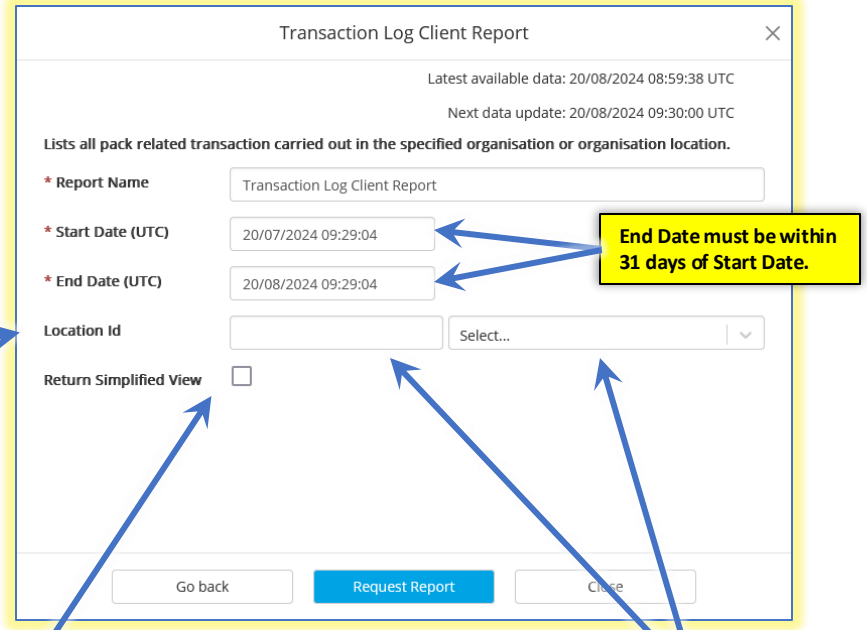
Reports - Transaction Log Client Report

This report provides a list of product pack related transactions initiated by a pharmacist or wholesaler for a specified location and time period. It is available via a networked API call into the NMVS (also available via Admin portal)

Location ID is optional, if left blank it will return the list of transactions for all the locations associated to the organisation of the requesting client. If Location ID is specified, any user that is assigned the same location, or an organisation level user (no set locations), can see the generated report.

Table of all properties outputted and descriptions

Transaction Log Client report request dialog



End Date must be within 31 days of Start Date.

Check 'Return Simplified View' box to include only the most important properties in report. Report formats are CSV, Excel and PDF (Simplified only). In addition, the API can output in JSON format.

'Location Id' has an associated dropdown containing all locations for the Local Organisation. It can help in finding the correct location Id.

If the actor requesting the report is a location user, then the list of locations IDs will be limited to their associated locations.

Property	Only for full version	Description
Date and Time (UTC)	No	Timestamp of the audit event raised
Client Location Name	Yes	Location name of the client equipment that performed the transaction
Client Location ID	No	Location ID of the client equipment that performed the transaction
Client Equipment ID	No	Equipment ID of the client that performed the transaction, or "EVA" if the transaction was performed via the Emergency Verification Portal
Client ID	Yes	Client ID of the client equipment that performed the transaction
Transaction Type	No	Type of transaction performed by the end user. Possible values are - Verify - State Change - Product Download
Target Pack State	No	For pack state changes only, the target pack state the end-user attempted to change the pack to
Event Name	No	User friendly name of the audit event describing the outcome of the performed transaction
Transaction Successful	No	Boolean flag that determines if the transaction was successful or not
Product Code Scheme	No	Standardised product code scheme of the product that has been provided in the end-user transaction. Possible values are "GTIN" and "PPN"
Product Code	No	Product code of the product that has been provided in the end-user transaction
Batch Number	No	Batch identifier that has been provided in the end-user transaction
Batch Expiry Date	No	Batch expiry date that has been provided in the end-user transaction
Serial Number	No	Serial number of the pack that has been provided in the end-user transaction
Operation Code	No	Operation code returned to the end-user by the transaction
Event Message	No	Informational or warning message returned by the API to the end-user, for successful or unsuccessful transactions, localised with the language requested by the end-user when they made the transaction
Returned Pack State	No	The public state of the pack after the performed transaction. This property has to be filled in only if the public pack state had been returned to the end-user by the API, hence when the 5th and 6th digit of the operation code was "00"
Alert ID	No	UPRC returned by the Verification API
Alert Code	Yes	For alerts only, the EMVS Error code returned to the end-user by the API, e.g. A3, A68 etc
Transaction ID	Yes	The identifier of the end-user transaction
Product Name	Yes	The name of the product as provided by the OBP and returned to the end-user by the API
Product State	Yes	The state of the product found. This property has to be filled in only if the public pack state had been returned to the end-user by the API
Withdrawal Reason	Yes	The withdrawal reason provided by the OBP when they withdrawn the product and returned to the end-user by the API. This property has to be filled in only if the public pack state had been returned to the end-user by the API
Batch State	Yes	The state of the batch found. This property has to be filled in only if the public pack state had been returned to the end-user by the API
Recall Reason	Yes	The recall reason provided by the OBP when they recalled the batch and returned to the end-user by the API. This property has to be filled in only if the public pack state had been returned to the end-user by the API
Is Intermarket	Yes	Boolean flag that determines if the transaction was processed via Intermarket.
Number Of Attempts	Yes	Number of double dispense/decommisison attempts. To be returned only if the Pack Last Update market and location are the same as the ones of the end-user that made the transaction
Is Bulk	Yes	Boolean flag that tells if the transaction was single or bulk
Is Manual	Yes	Boolean flag that tells if the transaction was performed in manual mode
Requested API Version	Yes	Version of the API used to perform the transaction. Will be blank if the client has not specified any version
User-Agent	Yes	User-Agent HTTP header specified within the end-user transaction
IP Address	Yes	IP Address of the end-user client that performed the transaction

REPLY SOLIDSOFT

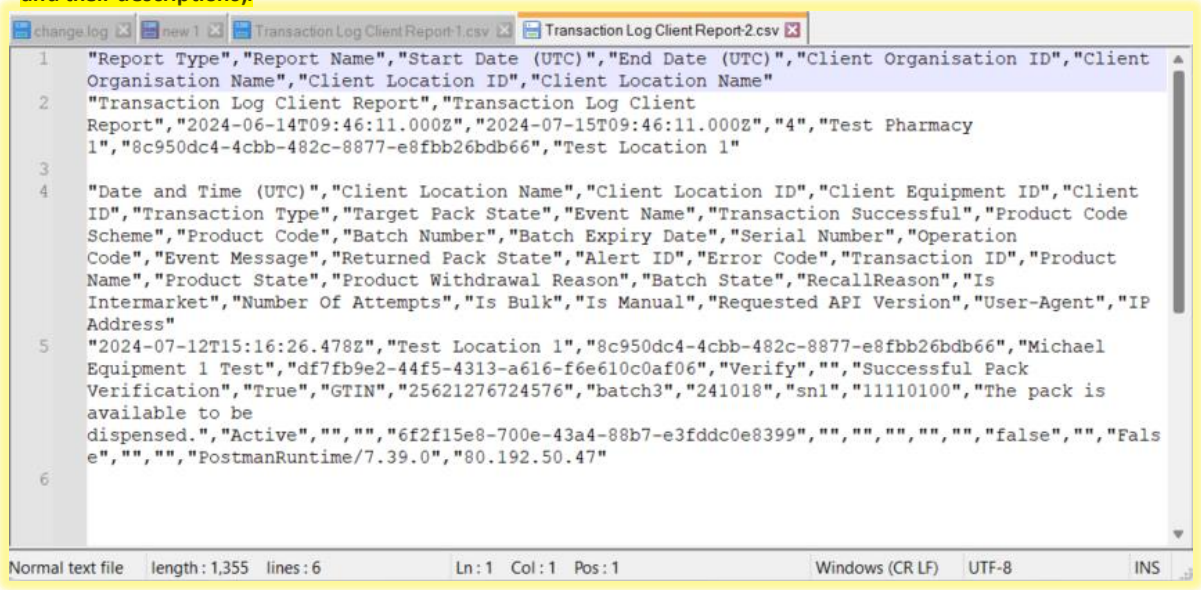
Reports - Transaction Log Client Report (2)

The first table in this report details parameters entered or selected by the report requester before the report was generated. Report output is based on this information.

Report Header	
Report Type	Transaction Log Client Report
Report Name	Test NMVO report
Start Date & Time (UTC)	21/03/2019 06:13:59
End Date & Time (UTC)	22/05/2020 17:17:59
Client Organisation ID	7187
Client Organisation Name	Test Wholesaler 1
Client Location ID	47355EA8-CB34-4493-A874-6FC03530FC47
Client Location Name	Test Location 2

If a remote national system is disconnected from the European Hub (e.g. 1 Jan 2025 - Nixit) and an IMT request is made that can only be fulfilled by that system, an A22 error code and message "The product code or batch is unknown locally. Inter-market communication error. Do not retry." will be recorded.

Transaction Log Client Report in CSV format. Full reporting of fields (See other slide for complete list of fields and their descriptions).



Simplified Report content – PDF format

Report Details										
Date and Time (UTC)	**Transaction Type**	**Target Pack State**	**Transaction Successful**	**Product Code Scheme**	**Product Code**	**Batch Number**	**Batch Expiry Date**	**Serial Number**	**Operation Code**	**Returned Pack State**
12/07/2024 15:16:26	Verify		True	GTIN	25621276724576	batch3	241018	sn1	11110100	Active
Client Location ID	8c950dc4-4cbb-482c-8877-e8fbb26bdb66									
Client Equipment ID	Michael Equipment 1 Test									
Event Name	Successful Pack Verification									
Event Message	The pack is available to be dispensed.									
Alert ID										

Rows will repeat in multiples for each transaction performed.

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Reports - Returned Packs Client Report

This report provides a list of packs flagged as suspicious transaction for a given location and time period. It is available via a networked API call into the NMVS (also available via Admin portal). The report includes the Unique Pack Return Code generated for each suspicious transaction as well as any serialisation data. Note the serialisation data supplied is potentially falsified and may not be in the EMVS data bases. The report may be used to retrieve the unique pack return codes for packs in cases where the user was unable to print/write down the unique pack return code at the time the pack return code was issued.

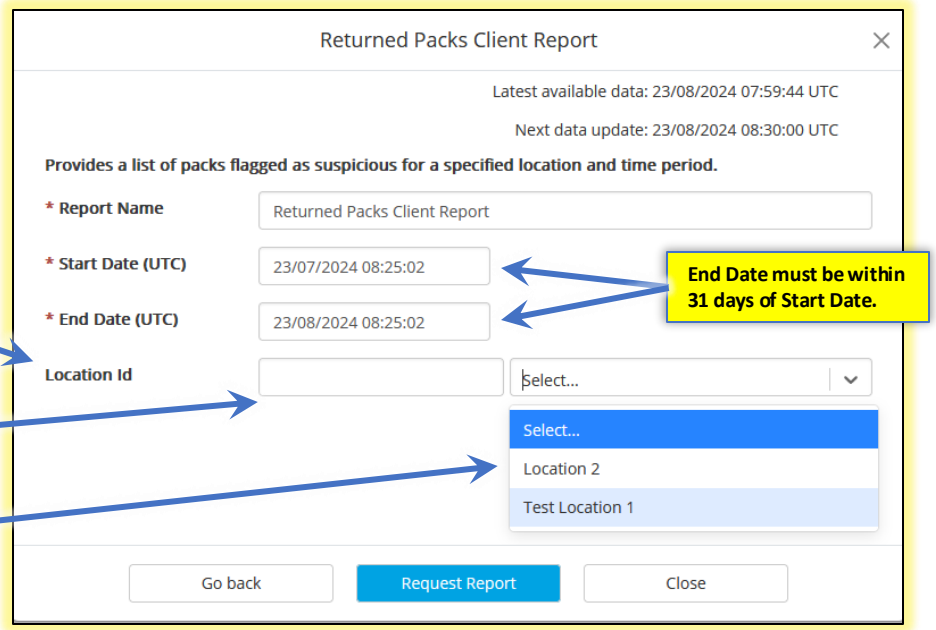
The first table in this report details parameters entered or selected by the report requester before the report was generated. Report output is based on this information.

Report Header	
Report Type	Returned Packs Client Report
Report Name	Test NMVO report
Start Date & Time (UTC)	21/03/2019 06:13:59
End Date & Time (UTC)	22/05/2020 06:17:59
Client Location ID	47355EA8-CB34-4493-A874-6FC03530FC47

Note: Location Id is optional but if a User is linked to only one location the field will not appear on the request dialog and the User's location will be used implicitly. If a User is linked to more than one location, or is an organizational user (no location assigned) the dropdown select list will only be populated with locations that the user has access to.

Report visibility: Any user that is assigned the same location, or an organisation level user (no set locations), can see the generated report.

Returned Packs Client report request dialogue



'Location Id' has an associated dropdown containing all locations for the Local Organisation. It can help in finding the correct location Id.

If the actor requesting the report is a location user, then the list of locations IDs will be limited to their associated locations.

Date and Time of the Returned Packs

Product code scheme associated to the transaction. GTIN or PPN.

Product code associated to the transaction.

Batch number of the product associated to the transaction.

Serial number of the Pack associated to the transaction.

Unique Pack Return Code generated for each suspicious transaction.

Report Details					
Date and Time (UTC)	**Product Code Scheme**	**Product Code**	**Batch Number**	**Pack Serial Number**	**UPRC**
19/05/2020 10:50:00	GTIN	11653356032414	000002	11IV79ZOVGYXI70UJ92Q	XX-KT9-6ZL-QGG-EPZ-DBY
19/05/2020 10:50:00	GTIN	11653356032414	000002	109SR4I18PYT16O4RV33	XX-KT9-6ZL-RPP-PHC-9X8
19/05/2020 10:50:00	GTIN	11653356032414	000002	11SS48Y2SMEIX3U3CQMW	XX-KT9-6ZL-UD9-LAW-J9Z
19/05/2020 10:56:42	GTIN	11653356032414	000002	11IV79ZOVGYXI70UJ92Q	XX-KT9-76A-8SK-Z2D-ZVF
19/05/2020 10:56:42	GTIN	11653356032414	000002	109SR4I18PYT16O4RV33	XX-KT9-76A-AVW-CGW-LV8
19/05/2020 10:56:42	GTIN	11653356032414	000002	11SS48Y2SMEIX3U3CQMW	XX-KT9-76A-CCX-8VL-78P

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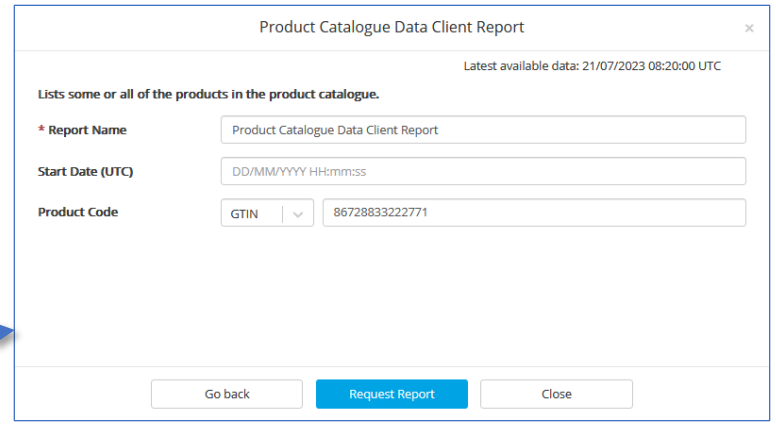
Reports - Product Catalogue Data Client Report

This report provides a list of all products currently stored in the product catalogue, together with details of the market authorisation holder and designated wholesalers. It is available via a networked API call into the NMVS (also available via Admin portal).

The first table in this report details parameters entered or selected by the report requester before the report was generated. Report output is based on this information.

Report Header	
Report Type	Product Catalogue Data Client Report
Report Name	Product Catalogue Data Client Report
Start Date & Time (UTC)	24/03/2020 16:37:00
Product Code	
Product Code Scheme	



Product Catalogue Data Client report request dialogue

Product code scheme specified during the report request, or all product code schemes applicable if no scheme was supplied. GTIN or PPN.

Product code number specified during the report request, or all product code numbers applicable if no product code was supplied.

Date and time when the product was first uploaded or updated.

Current product state. Active \ Withdrawn

Free text name of the product as entered by the product owner

Doses in pack

Strength of product.

National Healthcare Reimbursement Number, if applicable in the market.

Field used by EMA. Format is PRDnnnnnn

Report Details										
Product Code Scheme	**Product Code**	**Update Date**	**Product State**	**Name**	**Common Name**	**Pack Size**	**Strength**	**Pack Type**	**National Code**	**Article 57 Code**
GTIN	10191817161552	24/04/2020 10:20:00	Active	R6.1 Bug Repro-2	Common Name for product	20	200	APPLICATOR	NS Code	57code
Form	BUCCAL FILM									
MAH ID	MAH ID New R6.1-1									
MAH Name	MAH Name New R6.1-1									
MAH Address	MAH Street New R6.1									
MAH Town	MAH City New R6.1									
MAH Postcode	Postcode									
MAH Country	GB									
Wholesaler Details	Wholesaler ID: Whole ID, Wholesaler Name: Whole Name, Wholesaler Address 1: Whole Street, Wholesaler Address 2: Whole Street, Wholesaler Town: Whole City, Wholesaler Postcode: Postcode, Wholesaler Country: xx									

Title row for product that is described in the next 8 rows.

MAH name.

MAH ID number.

Pharmaceutical form of product

MAH postal address, postcode & country.

All designated wholesaler details in string format.

Rows will repeat in multiples for each product returned.

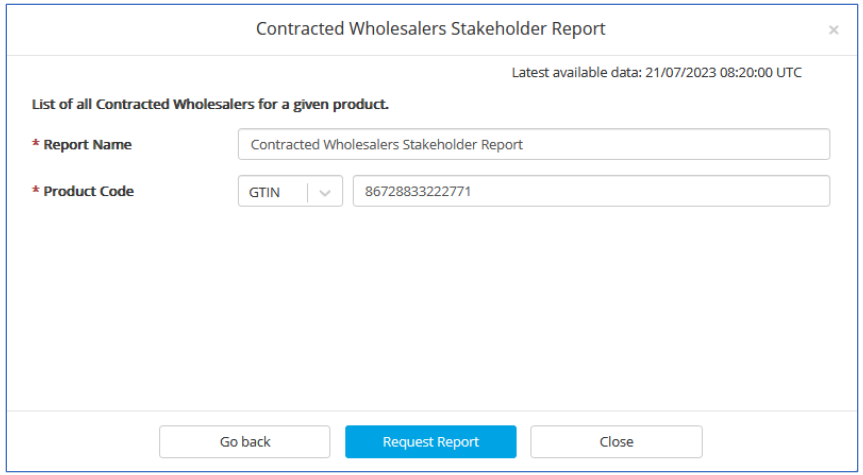
Reports - Contracted Wholesalers Stakeholder Report

This report lists the contracted wholesalers for a given product. It is available via networked API call (also available via Admin portal).

The URS requires that this report is provided to client systems (pharmacists and wholesalers). However, this is now redundantafter inclusion of additional requirements for product data download capabilities. Client systems can make programmatic requests to obtain the list of contracted wholesalers for a single productcode or a list of product codes. In addition, they can programmatically request a report that provides this information for every product in the NMVS product catalogue.

The first table in this report details parameters entered or selected by the report requester before the report was generated. Report output is based on this information.

Report Header	
Report Type	Contracted Wholesalers Stakeholder Report
Report Name	Contracted Wholesalers Stakeholder Report
Date & Time (UTC)	24/04/2020 16:35:50
Product Code Scheme	GTIN
Product Code	97774433090018



Contracted Wholesalers Stakeholder report request dialogue

Unique Wholesaler ID. Assigned during on-boarding to the EMVS.

Name of Wholesaler.

Address of Wholesaler.

Address of Wholesaler.

City of Wholesaler.

Postcode of Wholesaler.

Report Details						
ID	**Name**	**Address Line 1**	**Address Line 2**	**City**	**Postcode**	**Country Code**
Whole ID	Whole Name	Whole Street	Whole Street	Whole City	Postcode	xx

Rows will repeat in multiples for each wholesaler returned.

Country of Wholesaler.

Reports – End User Reports

There are three reports categorised as "end-user" reports:

- **End User Pack Audit Trail Report (PATR or PAT)**
- **End User Pack Disclosure Report (PDR)**
- **End User Batch Disclosure Report (BDR)**

These reports give the end-user the possibility to request a list of transactions carried out at their location against a specific unique identifier or Unique Pack Return Code (UPRC) - aka Alert Code.

Each report can be requested in either the full version or "simplified" version which only includes the most important properties. Also note that the reports can be supplied in various output formats (JSON, CSV, Excel) but only the simplified version can be supplied in PDF format as well.

The reports will only make available to the end user the audit points generated by their own organisation. They will not have visibility of any audit points generated by parties who do not belong to the requesting organisation.

The properties that are reported on in the *content* of the reports are in the table here. Any differences among the three reports over which fields are outputted are indicated.

Fields that are outputted / reported on

Property	Only for full version	Description
Date and Time (UTC)	No	Timestamp of the audit event raised
Client Location Name	No	Location name of the client equipment that performed the transaction
Client Location ID	Yes	Location ID of the client equipment that performed the transaction
Client Equipment ID	Yes	Equipment ID of the client that performed the transaction, or "EVA" if the transaction was performed via the Emergency Verification Portal
Client ID	Yes	Client ID of the client equipment that performed the transaction
Transaction Type	No	Type of transaction performed by the end user. Possible values are - Verify - State Change - Product Download
Target Pack State	No	For pack state changes only, the target pack state the end-user attempted to change the pack to
Event Name	Yes	User friendly name of the audit event describing the outcome of the performed transaction
Transaction Successful	Yes	Boolean flag that determines if the transaction was successful or not
Batch Number	Yes	(PAT, PDR Only) Batch identifier that has been provided in the end-user transaction
Batch Expiry Date	Yes	(PAT, PDR Only) Batch expiry date that has been provided in the end-user transaction
Serial Number	No	(BDR Only) Serial number of the pack that has been provided in the end-user transaction
Operation Code	No	Operation code returned to the end-user by the transaction
Event Message	No	Informational or warning message returned by the API to the end-user, for successful or unsuccessful transactions, localised with the language requested by the end-user when they made the transaction
Returned Pack State	No	The public state of the pack after the performed transaction. This property has to be filled in only if the public pack state had been returned to the end-user by the API, hence when the 5th and 6th digit of the operation code was "00"
Alert ID	No	UPRC returned by the Verification API
Error Code	Yes	For alerts only, the EMVS Error code returned to the end-user by the API, e.g. A3, A68 etc
Transaction ID	Yes	The identifier of the end-user transaction
Is Intermarket	No	Boolean flag that determines if the transaction was processed via Intermarket.
Number Of Attempts	Yes	Number of double dispense/decommisison attempts. To be returned only if the Pack Last Update market and location are the same as the ones of the end-user that made the transaction
Is Bulk	No	Boolean flag that tells if the transaction was single or bulk
Is Manual	No	Boolean flag that tells if the transaction was performed in manual mode
Requested API Version	Yes	Version of the API used to perform the transaction. Will be blank if the client has not specified any version
User-Agent	Yes	User-Agent HTTP header specified within the end-user transaction
IP Address	Yes	IP Address of the end-user client that performed the transaction

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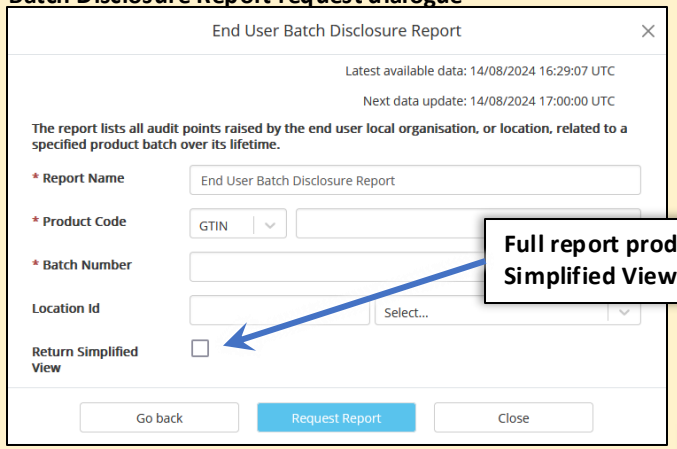
Reports – End-User Batch Disclosure Report (Full)

This report details every audit point performed by transactions related to a specific product and batch ID combination, conducted by the requesting local organisation. It can be filtered to provide only transactions by a particular location within the organisation. The report content is based on the existing Transaction Log Client Report without time constraints, but focused on a particular end-user provided product and batch.

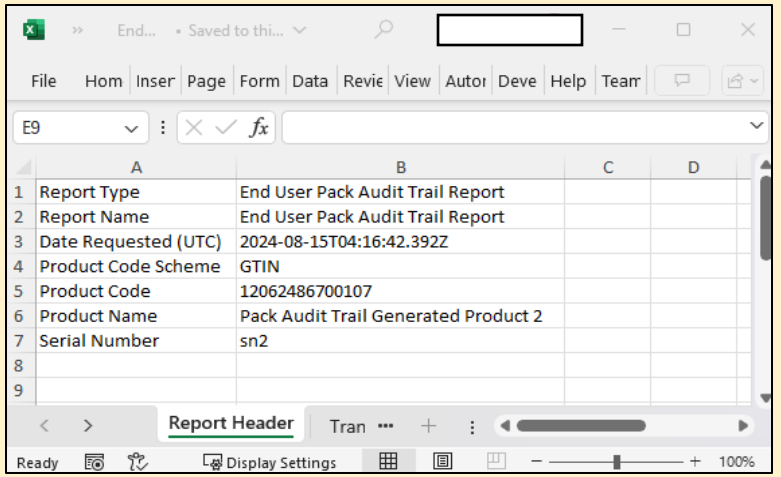
Report formats available to download are: CSV and Excel

Batch Disclosure Report request dialogue



Full report produced if 'Return Simplified View' not checked

Sample Report Header – Excel format



Description of the fields in the content that are reported are given in a different slide.

Sample Report Content - Excel format

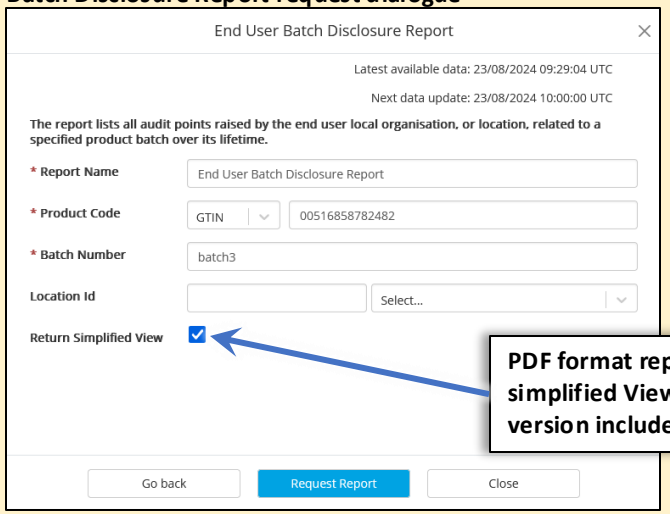
Date and Time (UTC)	Transaction Type	Target Pack State	Client Location Name	Operation Code	Event Message	Returned Pack State	Alert ID	Error Code	Is Bulk	Is Manual	Is Intermarket
2024-08-14T14:40:48.260Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:42:14.385Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:42:33.001Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:43:00.279Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:50:53.510Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:51:05.267Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:51:07.937Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:51:09.743Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE
2024-08-14T14:51:19.903Z	Verify	-	Test Location 1	41020007	The batch identifier mismatches the recorded batch identifier. The length or format does not match what has been uploaded. Possible scanner or software malfunction. An alert has been raised.	-	XX-MFX-3Q7-ZUC-RQH-W81	A68	FALSE	FALSE	FALSE
2024-08-14T14:51:30.113Z	Verify	-	Test Location 1	11110100	The pack is available to be dispensed.	Active	-	-	FALSE	FALSE	FALSE

Reports – End-User Batch Disclosure Report (Simplified)

This report details every audit point performed by transactions related to a specific product and batch ID combination. The report content is based on the existing Transaction Log Client Report without time constraints, but focused on a particular end-user provided product and batch. This version (Simplified) includes only the most important properties.

Download Formats: PDF, CSV, Excel.

Batch Disclosure Report request dialogue



PDF format reports are only produced when the 'Return simplified View' checkbox is ticked. The simplified report version includes only the most important properties

Sample Report Header content - PDF format - Simplified

Report Header	
Report Type	End User Batch Disclosure Report
Report Name	Batch Disclosure - Simplified
Date Requested (UTC)	23/08/2024 09:42:03
Product Code Scheme	GTIN
Product Code	00516858782482
Product Name	ds Generated Product 3
Batch ID	batch3
Location ID	-

Description of the fields in the content that are reported are given in a different slide.

Sample Report Content - PDF format – Simplified

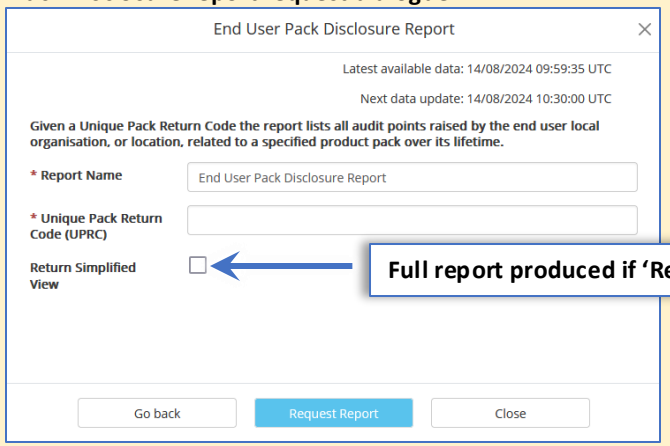
Report Details											
Date and Time (UTC)	**Transaction Type**	**Target Pack State**	**Client Location Name**	**Serial Number**	**Operation Code**	**Alert ID**	**Error Code**	**Returned Pack State**	**Is Bulk**	**Is Manual**	**Is Intermarket**
23/08/2024 09:16:35	Verify	-	Location 3	sn1	11111100	-	-	Recalled (Batch: Recalled)	false	false	false
Event Message	The batch has been recalled.										
23/08/2024 09:18:22	Verify	-	Location 3	sn2	11111100	-	-	Recalled (Batch: Recalled)	false	false	false
Event Message	The batch has been recalled.										
23/08/2024 09:18:51	Verify	-	Location 3	sn5	41020009	XX-MG8-0LN-R4Y-1A2-LEK	A68	-	false	false	false
Event Message	The batch identifier mismatches the recorded batch identifier. The length or format does not match what has been uploaded. Possible scanner or software malfunction. An alert has been raised.										
23/08/2024 09:20:13	Verify	-	Location 3	sn4	41020008	XX-MG8-0N1-CJR-6J7-KPK	A68	-	false	false	false
Event Message	The batch identifier mismatches the recorded batch identifier. The length or format does not match what has been uploaded. Possible scanner or software malfunction. An alert has been raised.										

Reports – End-User Pack Disclosure Report (Full)

This report details every verification audit point performed by transactions linked with a provided Unique Pack Return Code (UPRC). The report content is based on the existing Transaction Log Client Report without time constraints, but focused on a particular product-pack as a result of a provided UPRC. Note that the location of the alert must match that of the client requesting the report, or be of the same organisation if the client is not associated with any location.

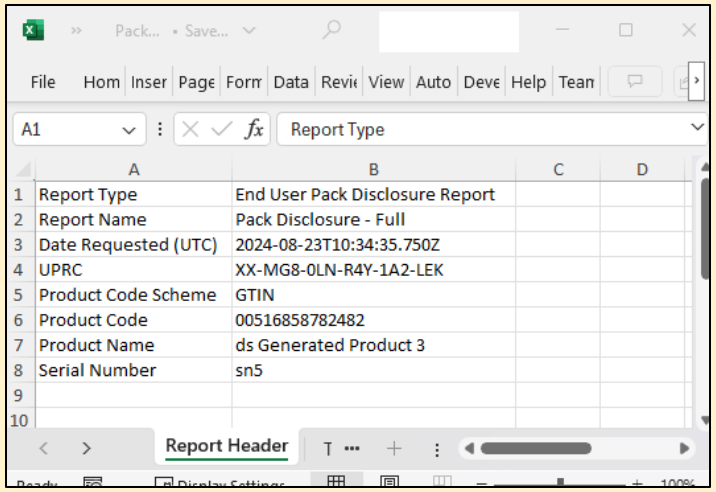
Report formats available to download are: CSV and Excel

Pack Disclosure report request dialogue



Full report produced if 'Return Simplified View' not checked

Sample Report Header content - Excel format



	A	B
1	Report Type	End User Pack Disclosure Report
2	Report Name	Pack Disclosure - Full
3	Date Requested (UTC)	2024-08-23T10:34:35.750Z
4	UPRC	XX-MG8-0LN-R4Y-1A2-LEK
5	Product Code Scheme	GTIN
6	Product Code	00516858782482
7	Product Name	ds Generated Product 3
8	Serial Number	sn5

Description of the fields in the content that are reported are given in an earlier slide.

Sample Report Content - Excel format

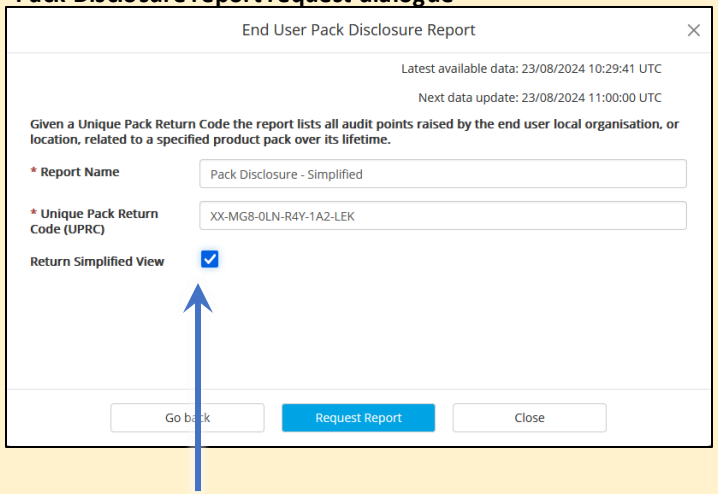
Date and Time (UTC)	Transaction Type	Event Name	Transaction ID	Target Pack State	Client Location ID	Client Location Name	Client Equipment ID	Client Requested API Version	User-Agent	Batch ID	Batch Expiry Date	Transaction Successful	Operation Code	Event Message	Alert ID	Error Code	Returned Pack State	Is Bulk	Is Manual	Is Intermarket	Number Of Attempts
2024-08-23T09:18:51.153Z	Verify	Pack Verification Failed Because Of Batch ID Mismatch	b1af0d2e-4a17-4dd5-b7a1-e26cea39856d	-	17bede95-2121-4b34-90b1-1bc5979a1933	Location 3	LocnThreeEq1	87e0a-e05-10ab-4f2a-a3fd-e00438c5ace0	PostmanRuntime/7.40.0	batch3	251200	FALSE	41020009	The batch identifier mismatches the recorded batch identifier. The length or format does not match what has been uploaded. Possible scanner or software malfunction. An alert has been raised.	XX-MG8-0LN-R4Y-1A2-LEK	A68	-	FALSE	FALSE	FALSE	-

Reports – End-User Pack Disclosure Report (Simplified)

This report details every verification audit point performed by transactions linked with a provided Unique Pack Return Code (UPRC). This version (Simplified) includes only the most important properties.

Download Formats: PDF, CSV, Excel.

Pack Disclosure report request dialogue



PDF format reports are only produced when the 'Return simplified View' checkbox is ticked. The simplified report version includes only the most important properties

Sample Report Header – PDF format

Report Header	
Report Type	End User Pack Disclosure Report
Report Name	Pack Disclosure - Simplified
Date Requested (UTC)	23/08/2024 10:33:56
UPRC	XX-MG8-0LN-R4Y-1A2-LEK
Product Code Scheme	GTIN
Product Code	00516858782482
Product Name	ds Generated Product 3
Serial Number	sn5

Sample Report Content - PDF format

Report Details										
Date and Time (UTC)	**Transaction Type**	**Target Pack State**	**Client Location Name**	**Operation Code**	**Alert ID**	**Error Code**	**Returned Pack State**	**Is Bulk**	**Is Manual**	**Is Intermarket**
23/08/2024 09:18:51	Verify	-	Location 3	41020009	XX-MG8-0LN-R4Y-1A2-LEK	A68	-	false	false	false
Event Message	The batch identifier mismatches the recorded batch identifier. The length or format does not match what has been uploaded. Possible scanner or software malfunction. An alert has been raised.									

Description of the fields in the content that are reported are given in a different slide.

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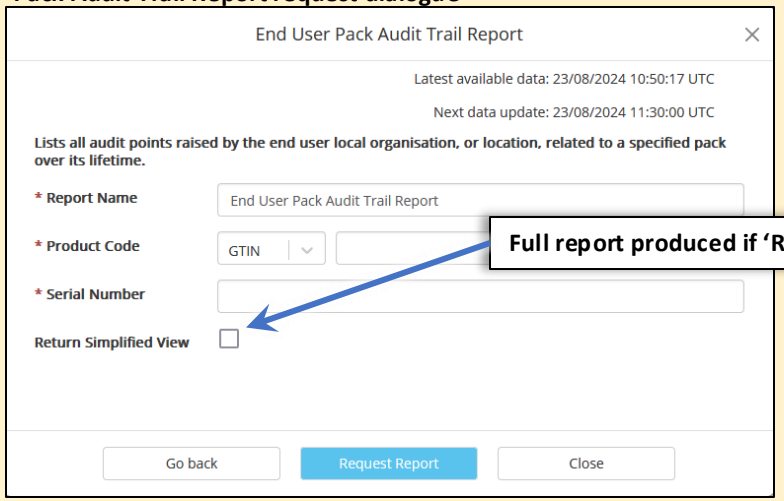
Reports – End-User Pack Audit Trail Report (Full)

This report details every audit point performed by transactions linked to a specific unique pack identifier, conducted by the requesting local organisation. The report content is based on the existing Transaction Log Client Report without time constraints, but focused on a particular product-pack.

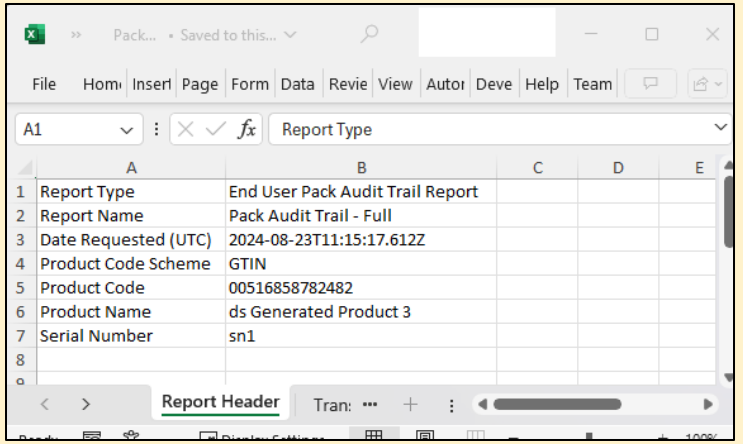
Report formats available to download are: CSV and Excel

Pack Audit Trail Report request dialogue



Full report produced if 'Return Simplified View' not checked

Sample Report Header content - Excel format



Sample Report Content - Excel format

Date and Time (UTC)	Transaction Type	Event Name	Transaction ID	Target Pack State	Client Location ID	Client Location Name	Client Equipment ID	Client ID	Requested API Version	User-Agent	Batch ID	Batch Expiry Date	Transaction Successful	Operation Code	Event Message	Alert ID	Error Code	Returned Pack State	Is Bulk	Is Manual	Is Intermarket	Number Of Attempts
2024-08-23T09:16:35.561Z	Verify	Successful Pack Verification	57151f79-692c-403a-b1a2-9058519b2e31	-	17bede95-2121-4b34-90b1-1bc5979a1933	Location 3	LocnThreeEq1	87e0ae05-10ab-4f2a--a3fd-e00438c5ace0		PostmanRuntime/7.40.0	batch 3	251200	TRUE	11111100	The batch has been recalled.	-	-	Recalled (Batch: Recalled)	FALSE	FALSE	FALSE	-

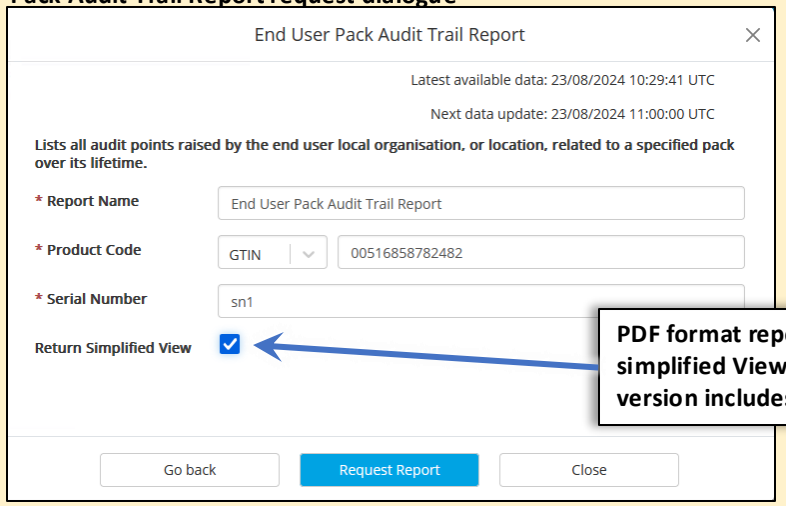
Description of the fields in the content that are reported are given in an earlier slide.

Reports – End-User Pack Audit Trail Report (Simplified)

This report details every audit point performed by transactions linked to a specific unique pack identifier, conducted by the requesting local organisation. This version (Simplified) includes only the most important properties.

Download Formats: PDF, CSV, Excel.

Pack Audit Trail Report request dialogue



PDF format reports are only produced when the 'Return simplified View' checkbox is ticked. The simplified report version includes only the most important properties

Sample Report Header content - PDF format

Report Header	
Report Type	End User Pack Audit Trail Report
Report Name	Pack Audit Trail - Simplified
Date Requested (UTC)	23/08/2024 11:14:50
Product Code Scheme	GTIN
Product Code	00516858782482
Product Name	ds Generated Product 3
Serial Number	sn1

Description of the fields in the content that are reported are given in an earlier slide.

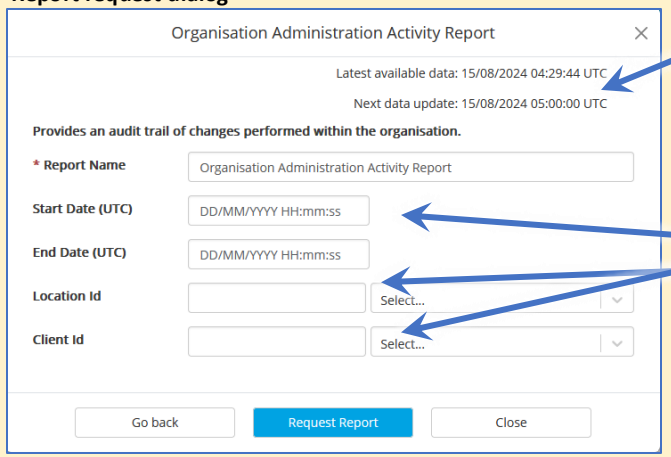
Sample Report Content - PDF format

Report Details										
Date and Time (UTC)	Transaction Type	Target Pack State	Client Location Name	Operation Code	Alert ID	Error Code	Returned Pack State	Is Bulk	Is Manual	Is Intermarket
23/08/2024 09:16:35	Verify	-	Location 3	11111100	-	-	Recalled (Batch: Recalled)	false	false	false
Event Message	The batch has been recalled.									

Reports – Organisation Administration Activity Report

This report lists an audit trail of events of all administration operations performed against the organisation of the report requester.

Report request dialog



'Latest available date' shows the last time events were ingested. 'Next data update' shows the next ingestion run.

Report can be filtered by timerange, locations that requesting user has access to, and client ids for those locations.

Note: If requesting user is assigned to one location, the location dropdown selection will not appear on the dialog.

First table in report (Report Header) which shows request parameters

Report Header	
Report Type	Organisation Administration Activity Report
Report Name	Organisation Administration Activity Report
Date Requested (UTC)	16/07/2024 08:13:53
Start Date (UTC)	15/07/2024 08:00:00
End Date (UTC)	-
Organisation ID	4
Organisation Name	Test Pharmacy 1
Location ID	-
Location Name	-
Client ID	-

Property	Description
Transaction ID	The unique identifier of the transaction
Date & Time (UTC)	Timestamp of the administration audit event
Actor	Type of actor that performed the action, possible values are NMVO, System and Organisation
By User	Email address of the user within the organisation that performed the action, or the client ID if the action had been performed via API. If the action had been performed by the NMVO or by the System, this field will be left blank.
Event Name	User friendly name of the administration event
Details	This field aims to capture the relevant details of the action performed

Report Details

Date & Time (UTC)	Actor	By User	Event Name
Transaction ID	279d1d4c-fcdd-496b-93c2-b873ce6dcece		
Details	Client ID: a4ce775d-17cb-48c1-bf77-fe242955c89b Client Name: cool Client Roles: Full Access		
15/07/2024 13:16:58	Organisation	pharmacysuperuser@example.com	Client Added
Transaction ID	1c8b688b-b320-4ac7-aa6c-9ca437ec87dc		
Details	Client ID: b3a1e0e6-60e6-488d-9133-63d67c65363d Client Name: sgReportClient Client Roles: Full Access		
15/07/2024 13:57:19	Organisation	pharmacysuperuser@example.com	Client Added
Transaction ID	d437b86a-48f4-4c80-9de6-8107bbd46042		
Details	Location ID: 8c950dc4-4cbb-482c-8877-e8fbb26bdb66 Location Name: Test Location 1 Client ID: 4885d2be-1b67-42b7-ac8a-fe4e8573b14f Client Name: eq Client Roles: Full Access Current Active/Suspended clients in location: 4		
15/07/2024 14:24:04	Organisation	pharmacysuperuser@example.com	Location Added
Transaction ID	400490b4-dfe2-4179-9f64-91aaf553bc6c		
Details	Location ID: 0ef846b5-0ca2-4c29-9e62-c989462258a8 Location Name: Location 3 Location Address: Via Timavo, 37, Bari, 70124 BA Legitimacy Information: ABC12345 Current Locations in organisation: 2		
15/07/2024 14:24:55	NMVO		Location Approved
Transaction ID	a83d24fa-6fcd-4b3e-bab8-1834552648bf		
Details	Location ID: 0ef846b5-0ca2-4c29-9e62-c989462258a8 Location Name: Location 3 Legitimacy Information: ABC12345		
15/07/2024 14:25:22	Organisation	pharmacysuperuser@example.com	Client Added
Transaction ID	289d1159-2742-4bd1-bbeb-532266f75722		
Details	Location ID: 0ef846b5-0ca2-4c29-9e62-c989462258a8 Location Name: Location 3 Client ID: c93a6d79-6127-45e4-91d6-aabf0f3f3156 Client Name: BariTone Equipment 1 Client Roles: Full Access Current Active/Suspended clients in location: 1		
15/07/2024 14:25:29	Organisation	pharmacysuperuser@example.com	Client Secondary Secret Created
Transaction ID	deb62ce4-3aad-447f-877a-0a1531afc944		
Details	Location ID: 0ef846b5-0ca2-4c29-9e62-c989462258a8 Location Name: Location 3 Client ID: c93a6d79-6127-45e4-91d6-aabf0f3f3156 Client Name: BariTone Equipment 1 Performed Via: Portal		
15/07/2024 14:25:35	Organisation	pharmacysuperuser@example.com	Client Primary Secret Regenerated
Transaction ID	9a25a510-0658-425b-b1ac-9935c6bfd773		
Details	Location ID: 0ef846b5-0ca2-4c29-9e62-c989462258a8 Location Name: Location 3 Client ID: c93a6d79-6127-45e4-91d6-aabf0f3f3156 Client Name: BariTone Equipment 1		

REPLY SOLIDSOFT

User Roles

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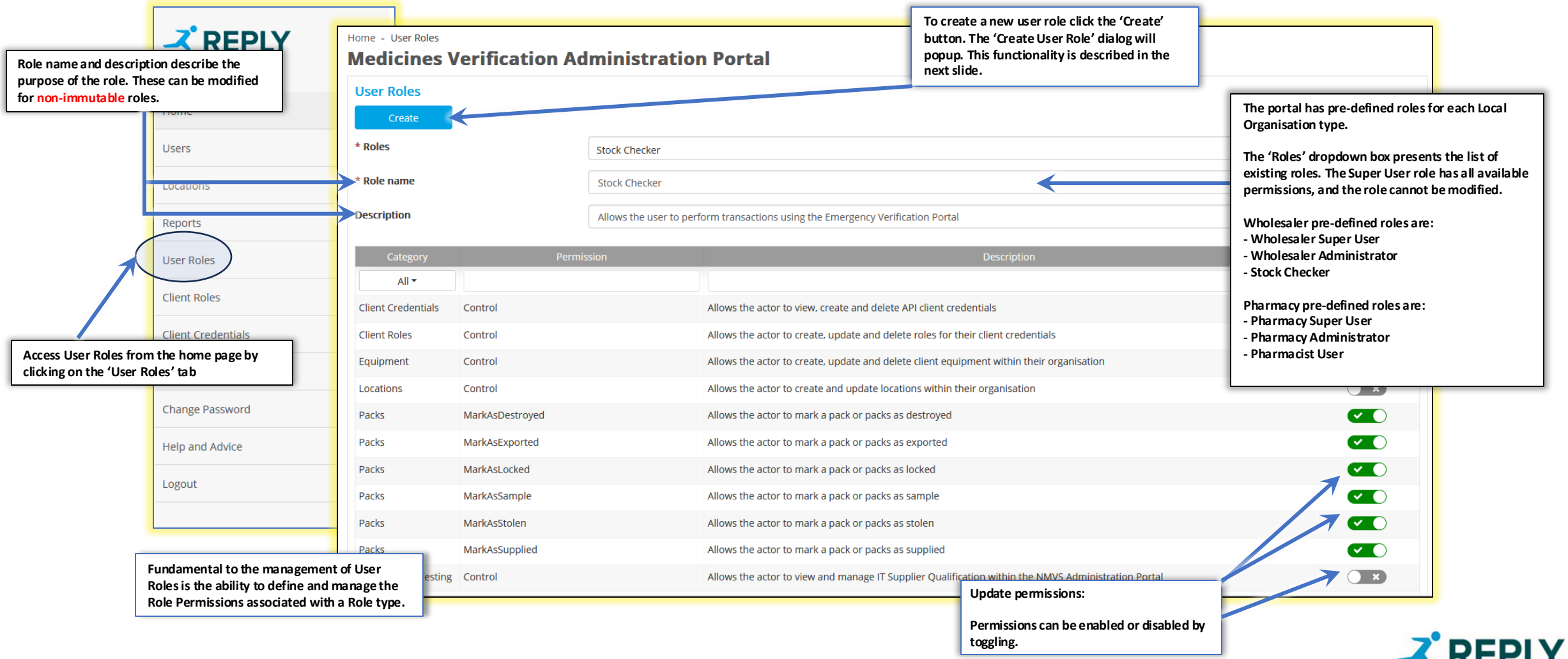
User Roles - Local Organisation Super User

The 'User Roles' page allows the user to define new roles, manage existing roles, and delete existing roles.

NOTE: *Client Roles* allow fine-grained control access to client credentials, defining who can generate, read and exclude reports on a per report basis. *Client Roles* also controls which users can perform pack state changes and verifications. (To control access to all other part of the system, *User Roles* would be used to set these other permissions)

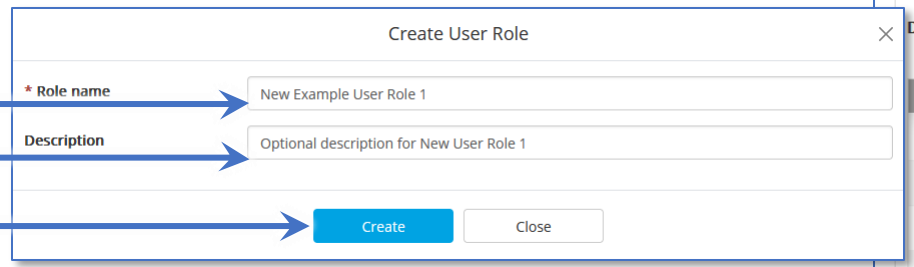


REPLY SOLIDSOFT

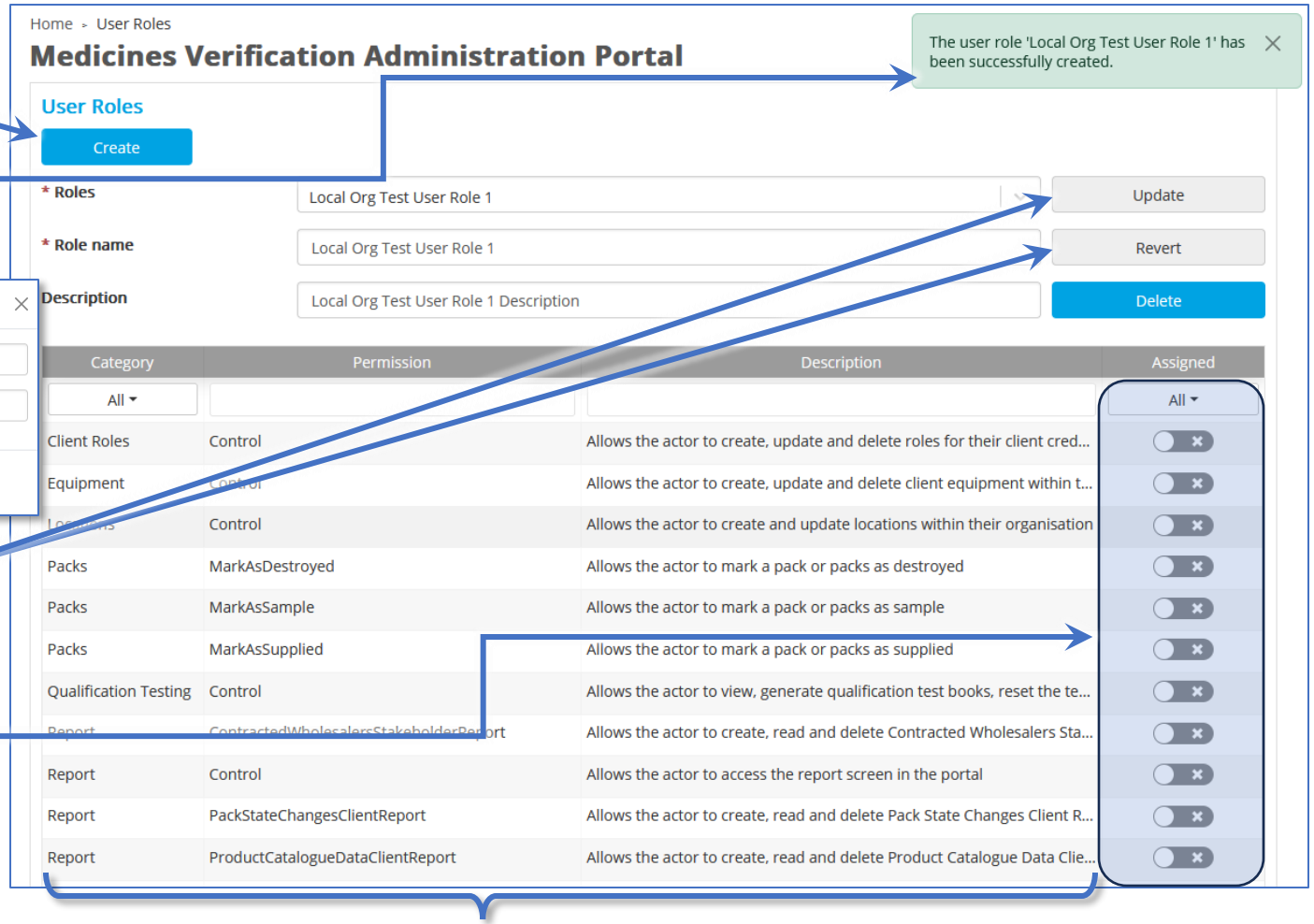
User Roles - Creating New Roles

1. To create a new role, Click the main 'Create' button. A popup will open.
2. Type a new role name into the Role Name field.
3. There is the option to add a description.
4. Click the 'Create' button on the dialog to add the role. A Toast message is briefly displayed.

Create User Role dialog



5. When permissions are enabled/disabled, the 'Update' and 'Revert' buttons become enabled.
   Click the 'Update' to save the permissions to the new role. Click 'Revert' to undo changes.
6. By default, new roles are created with no permissions. In the 'Assigned' column, grant permissions by (enabling) clicking the specific permission. This is a toggle switch, so revoke a permission by toggling off (disabling).



The Permissions table shows the name and description of each user permission, and the category it belongs to. By default, the local org 'Super User' role has all permissions.

Note: The user defining or changing the permissions associated with a role can only make changes to the roles whose permissions are available to their user account.

For example, a user without the 'Client Roles/Control' permission may not grant that permission to another role.

Following the creation of a new role, or the modification of an existing role, it is possible to allocate the new or modified role to a user in the 'Users' page.

REPLY SOLIDSOFT

User Roles – Updating existing roles

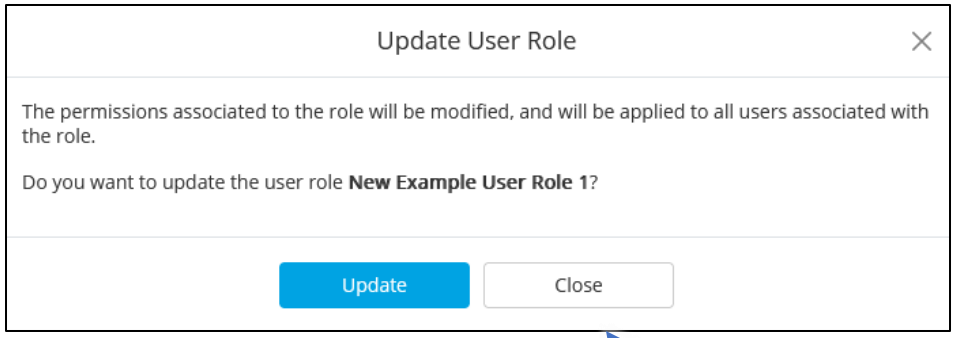
Note: The user defining or changing the permissions associated with a role can only make changes to the roles whose permissions are available to their user account.

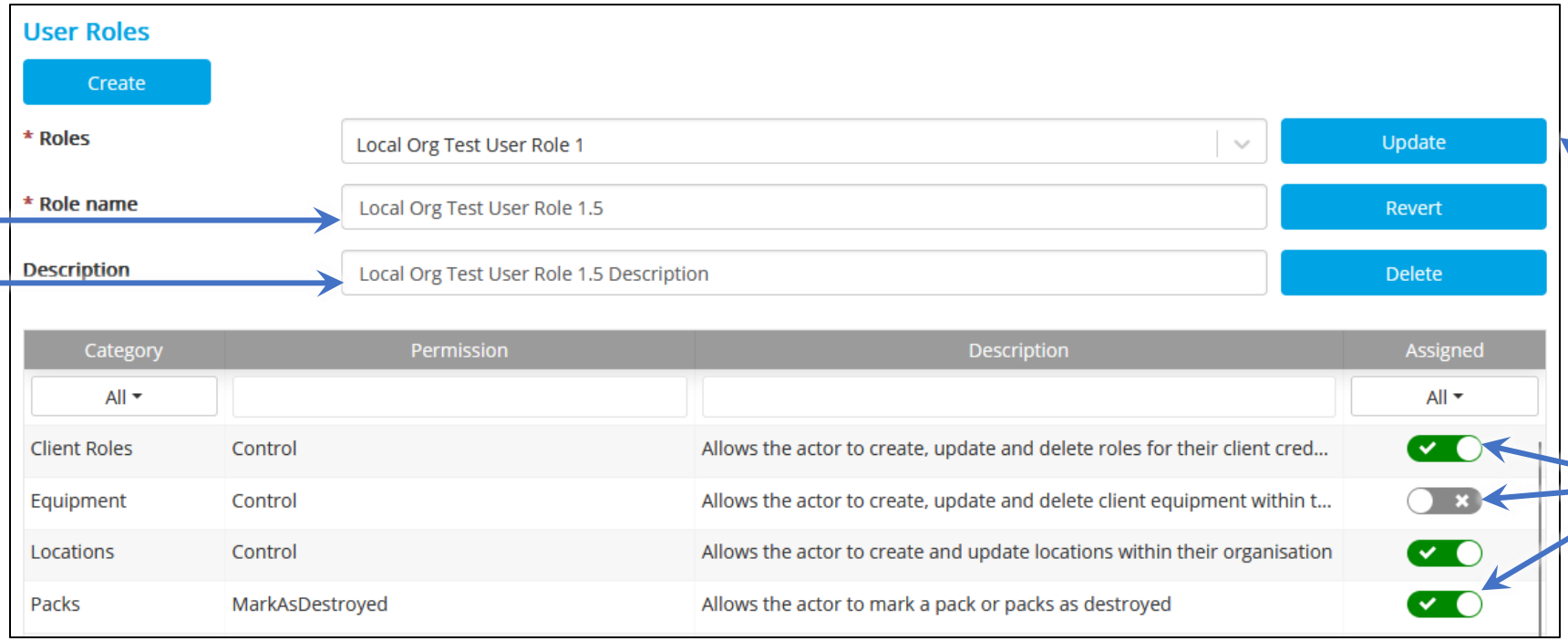
For example, a user without the 'Report/Control' permission may not grant that permission to another role.

Role names and descriptions can be changed by editing the Role Name and Description fields respectively.

The Superuser role (and its permissions) cannot be modified in any way.

The other default user roles can be modified, renamed, etc. including permissions.





When permissions are enabled/disabled, the 'Update' button becomes enabled.

Click the 'Update' to save the permissions to the new role

Updated permissions.

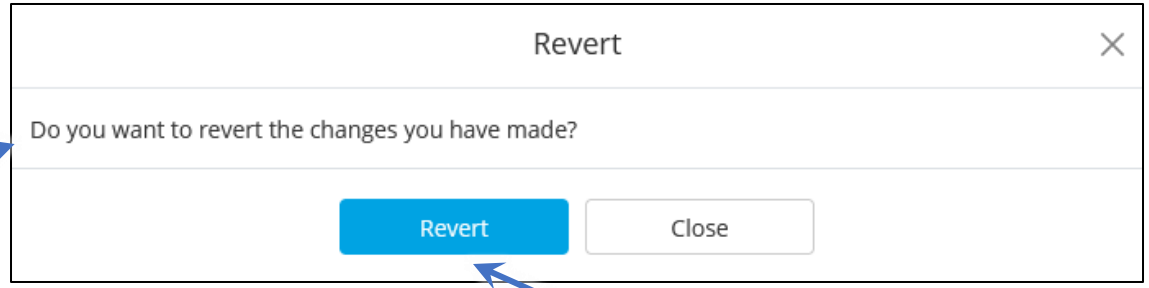
Permissions can be enabled or disabled by toggling.

REPLY SOLIDSOFT

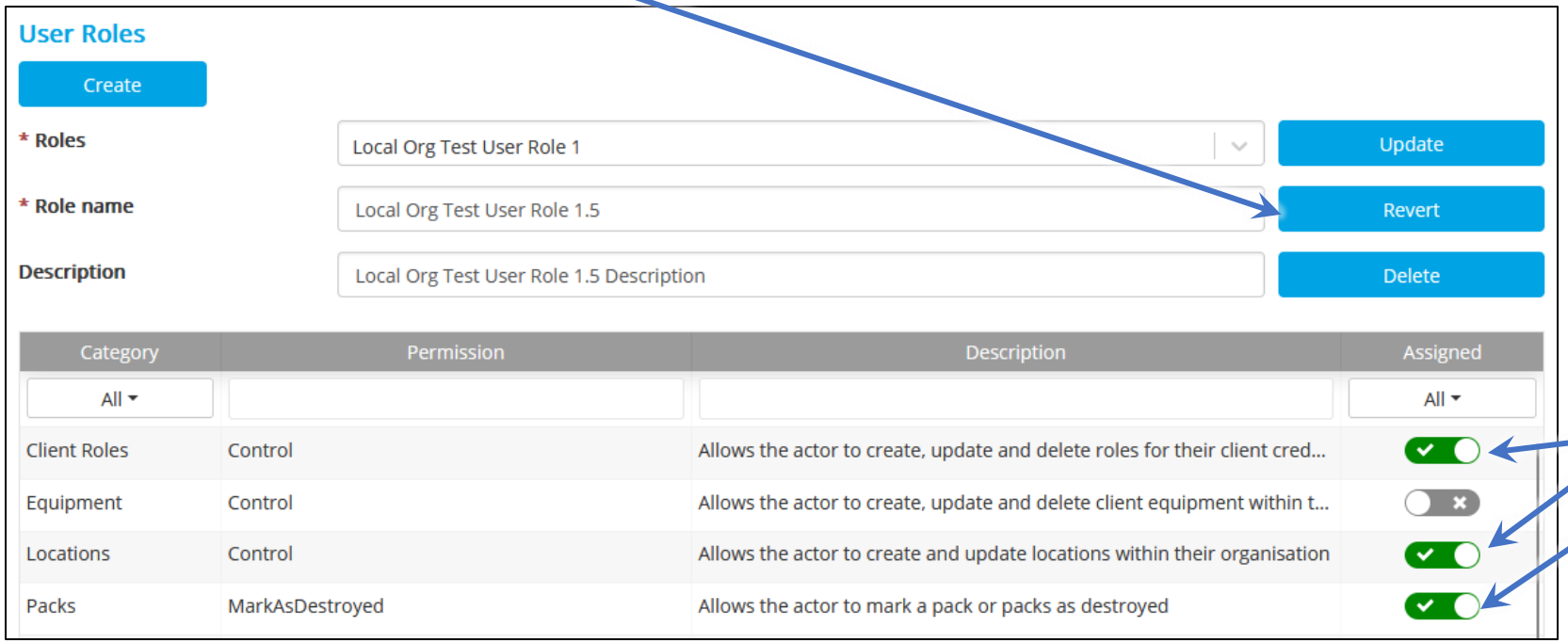
User Roles – Reverting changes

1. When permissions are enabled/disabled, the 'Update' and 'Revert' buttons become enabled.

Click 'Revert' to undo changes. The Revert Change dialog will be displayed



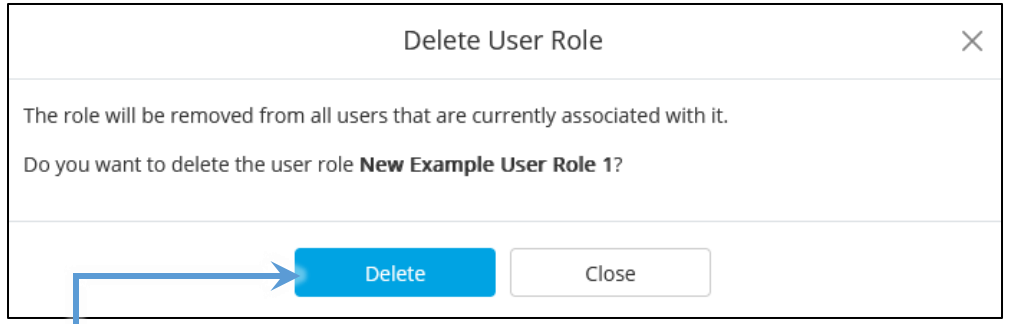
2. To confirm reversion of the changes, click the 'Revert' button on the 'Revert' popup dialog.



Updated permissions.

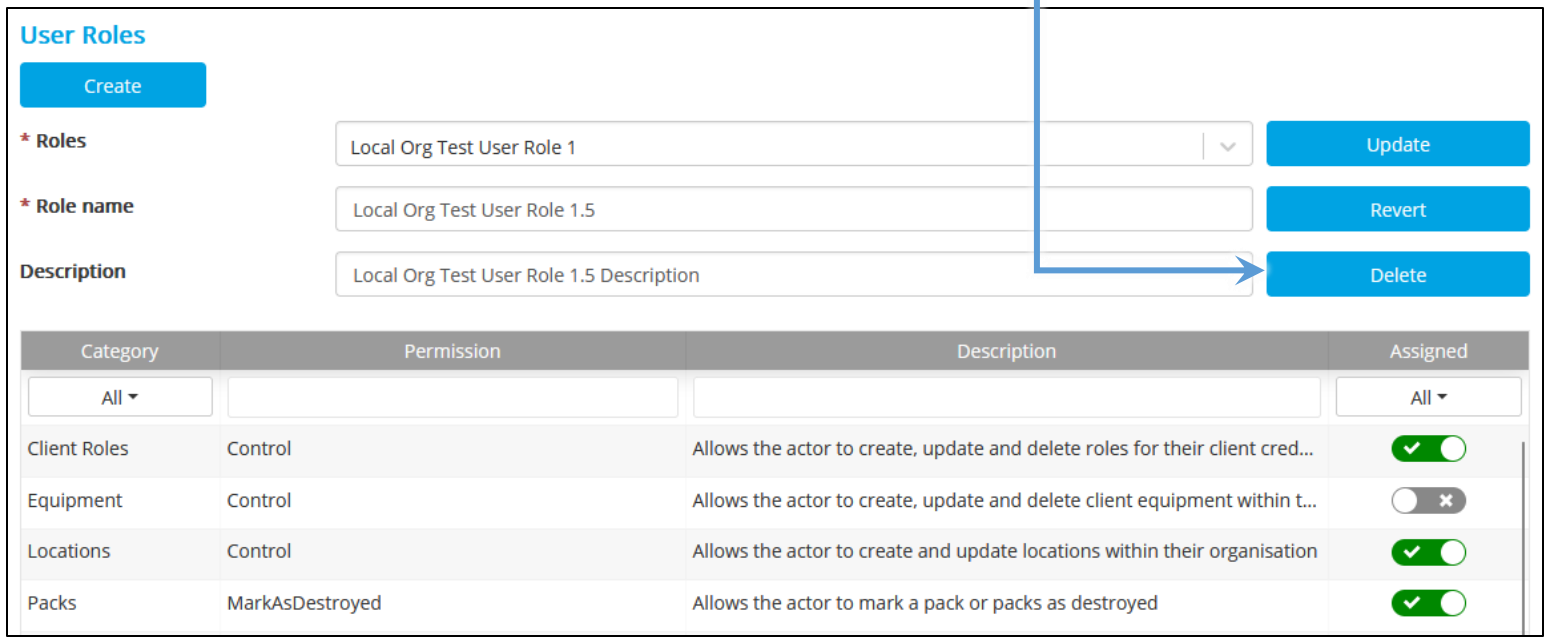
Permissions can be enabled or disabled by toggling.

User Roles – Delete a role



1. Click on the 'Delete' button on the User Roles page and the confirm Delete dialog modal will appear.

2. To confirm deletion of the selected role, click the 'Delete' button on the popup dialog.



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Client Roles

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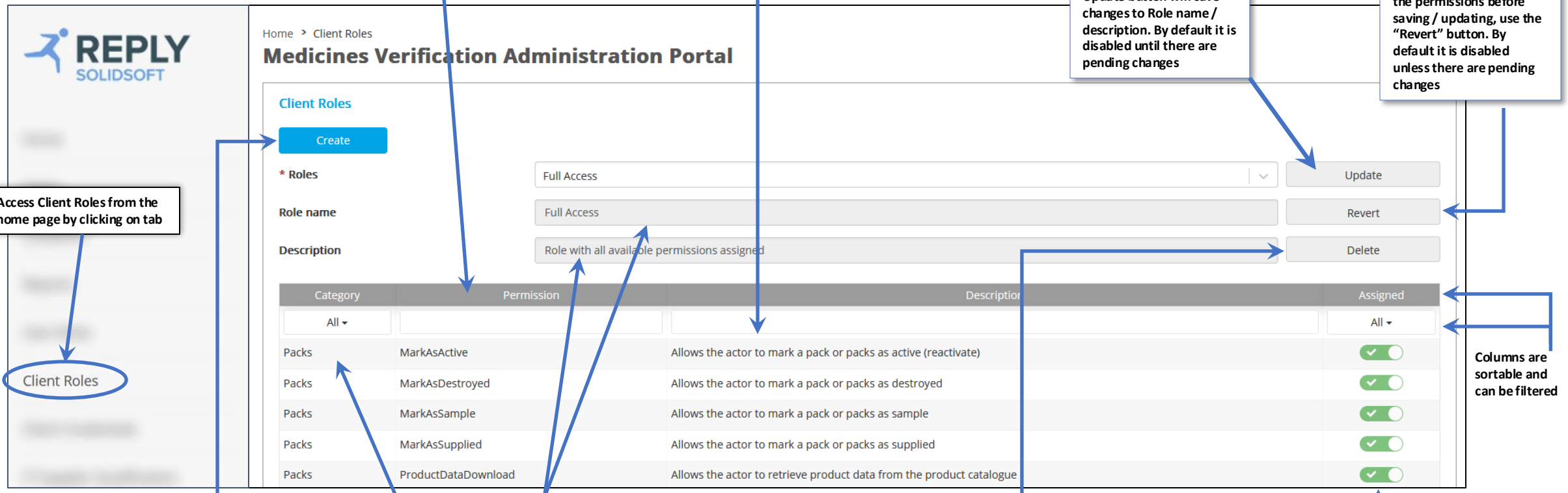
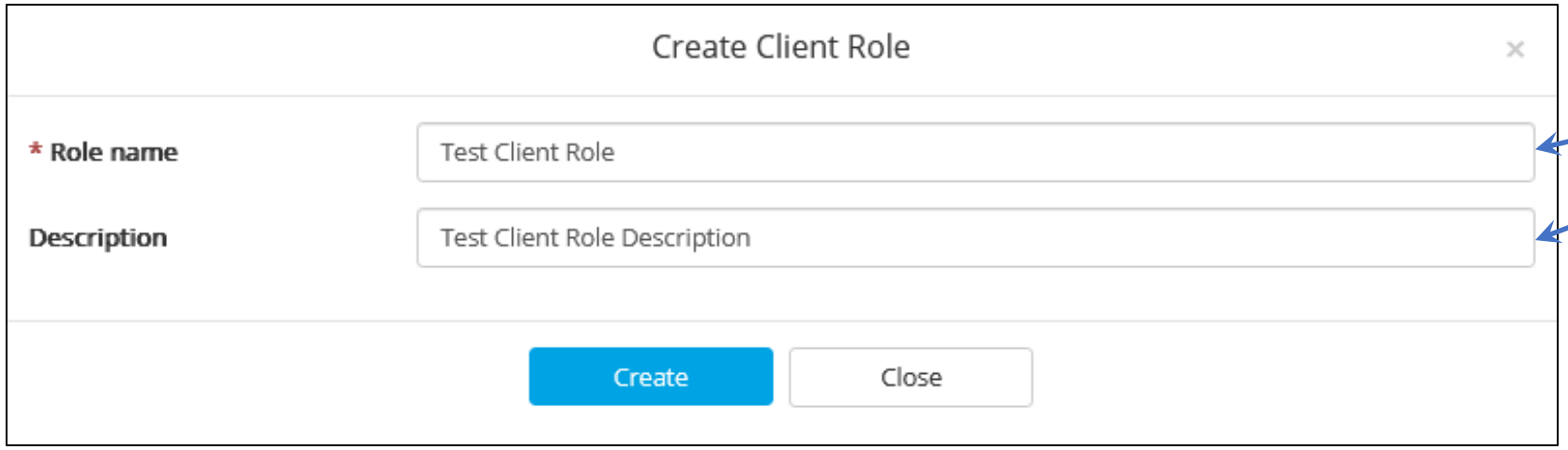
Client Roles - Main

Client Roles **allow fine-grained control access to client credentials, defining who can generate, read and exclude reports on a per report basis.** ***Client Roles*** **also controls which equipment can perform pack state changes and verifications. (To control access to all other part of the system,** ***User Roles*** **would be used to set these other permissions)**



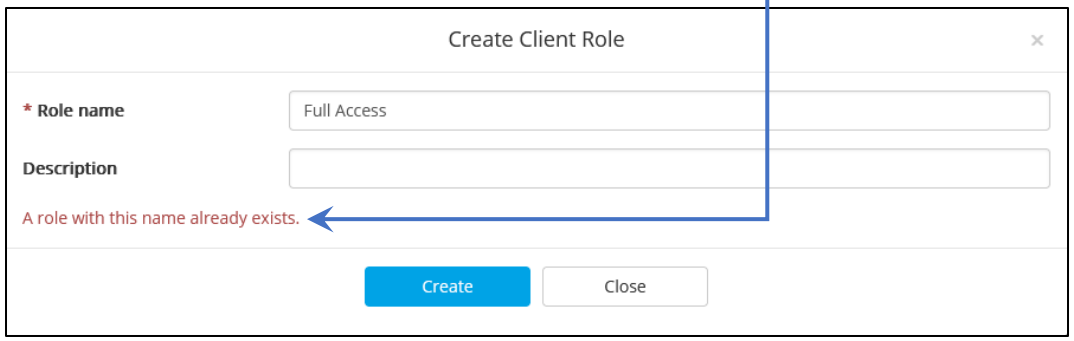
Client Roles – Add

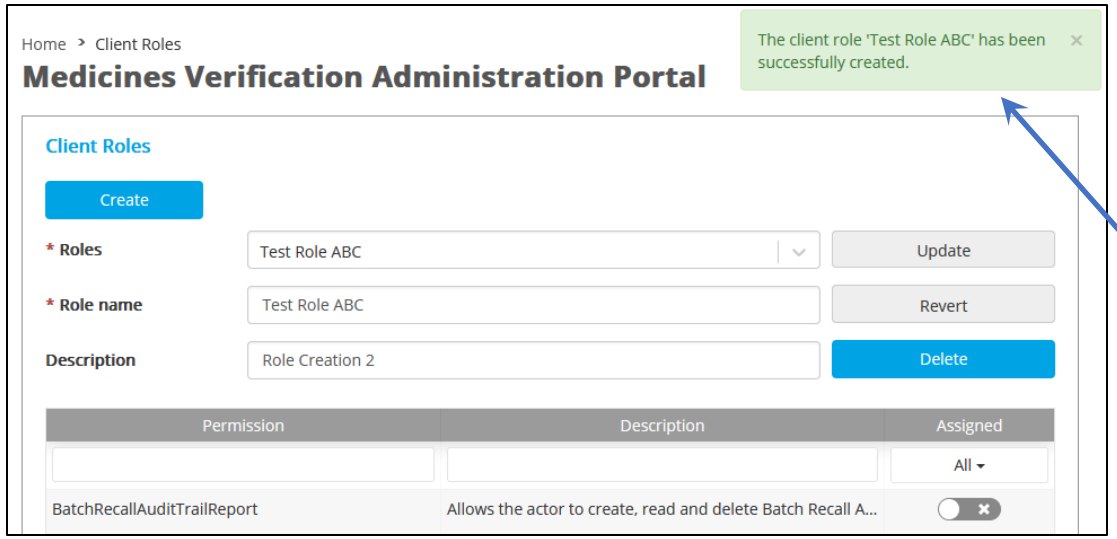


Add

Enter the role name and description. Once the "Create" button is clicked the dialogue will be dismissed, returning user to main client roles page and adding a new user role.

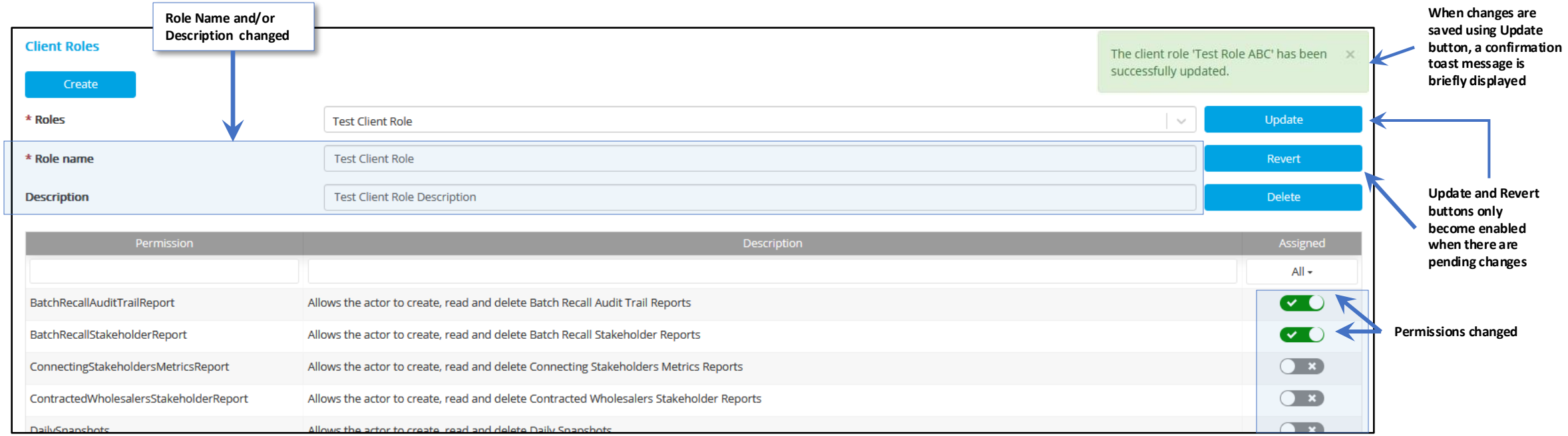
If attempt is made to add a Role with the same name as an existing Role, a validation message will appear





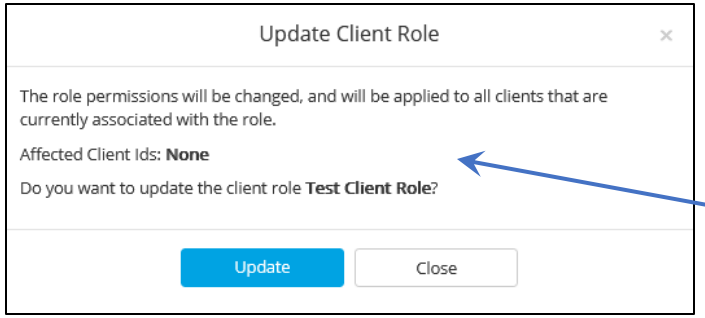
When the new role is created successfully, a confirmation toast message is briefly displayed on the main client roles page.

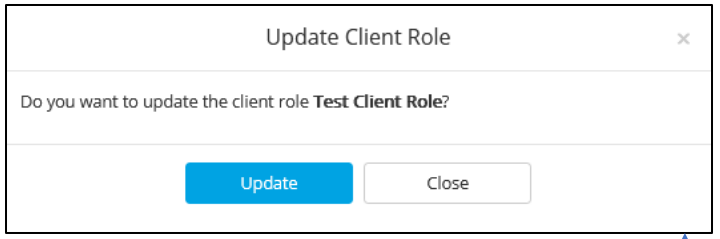
Client Roles – Update & Revert



Update

If the Update button on the main dialogue is clicked, the "Update Client Role" dialogue will appear. Clicking on the Update button in the dialog will save the changes, clicking on "Close" button in the dialogue will simply dismiss the dialogue without the changes being saved.





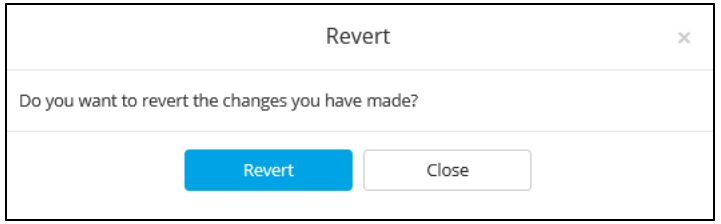
Update

Different Update Client Role dialogs can appear, depending on whether a change was made in the permissions or not.
If a change was made in the permissions, the dialogue will list Client Ids that will be affected by the change.

If the change was just to the Client role name and/or description, the dialogue will not mention Client Ids.

Revert

If the Permissions are changed (Granted / Revoked), or the Role Description is edited, the Revert and Update buttons become enabled. Clicking on the Revert causes a confirmation dialogue to appear. Clicking on "Revert" button on the popup dialogue causes the changes to be undone and the dialogue dismissed.



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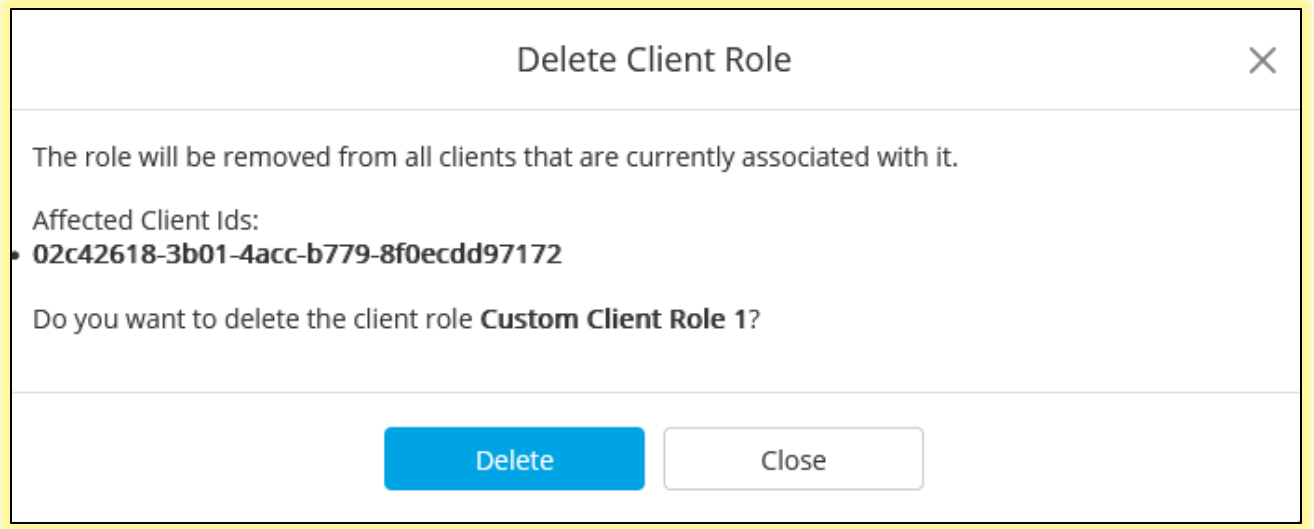
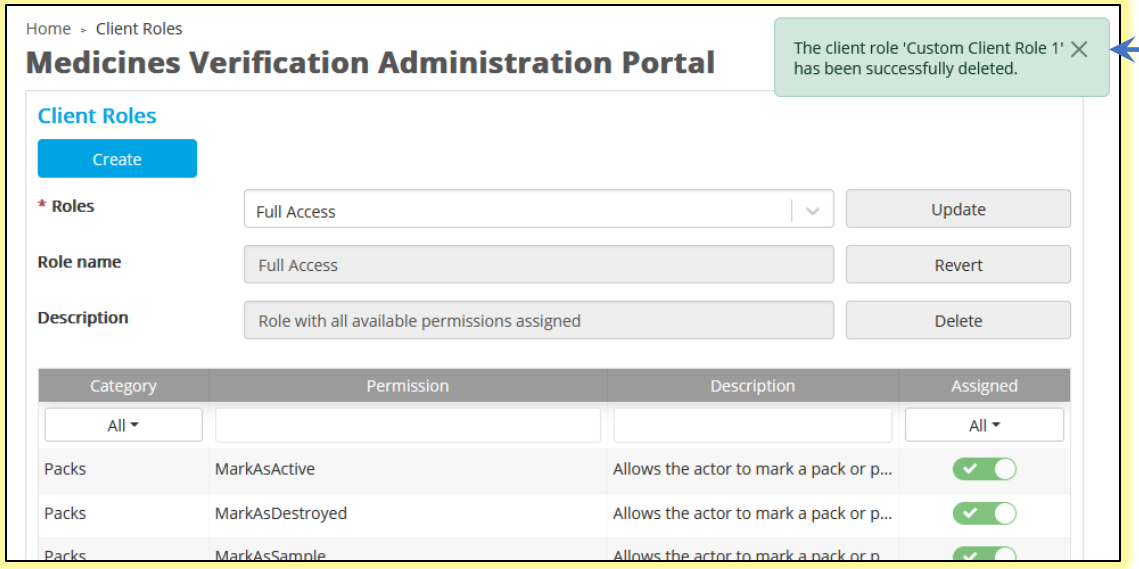
Client Roles – Delete



Delete

Clicking the "Delete" button on the Delete dialogue will delete the client role and return the user to the main dialogue. A confirmation message will also be shown.

When the role is successfully deleted a confirmation toast message will briefly appear on the main client roles panel



Client Credentials

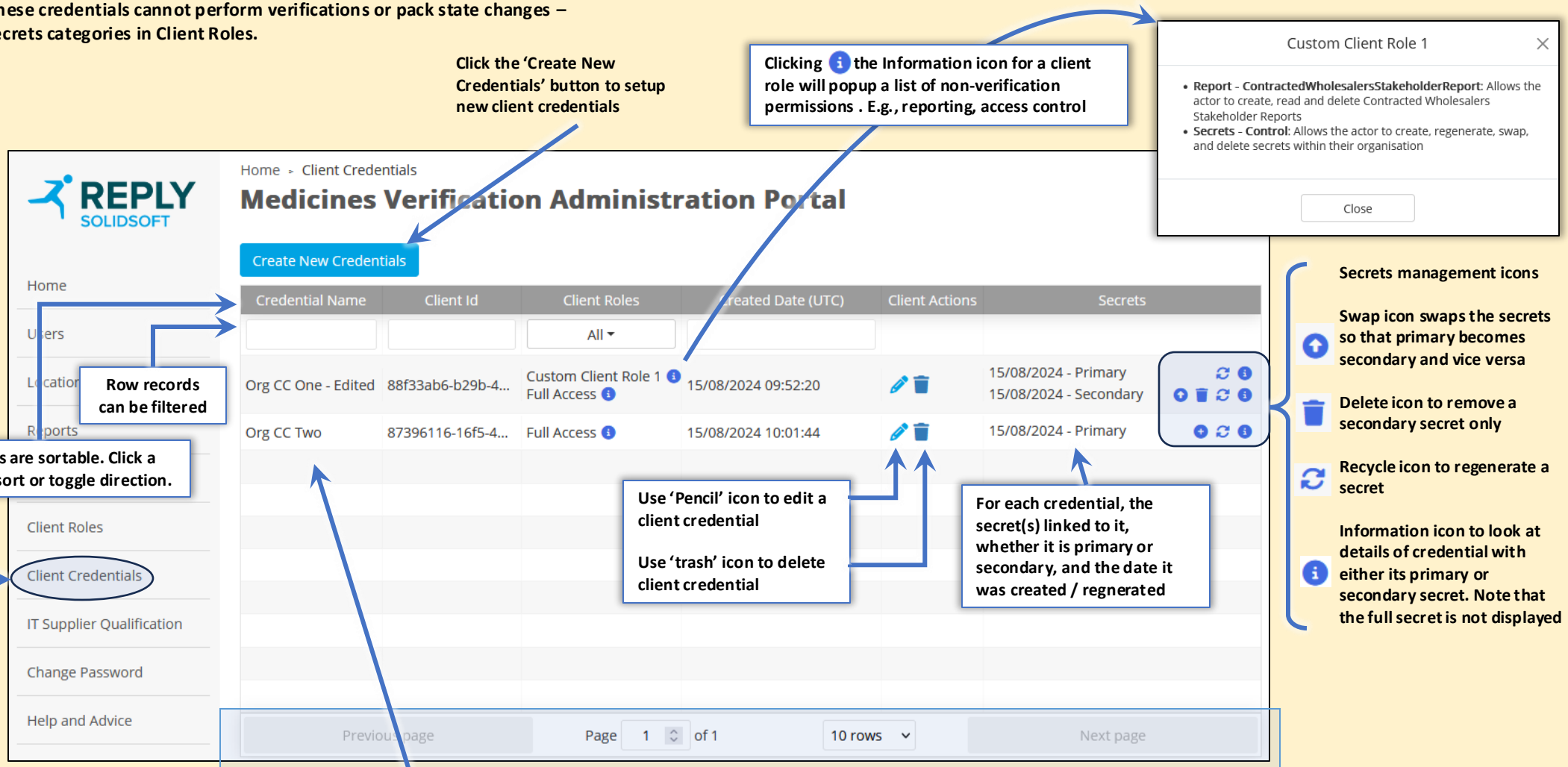
REPLY SOLIDSOFT

Client Credentials – Main

This is the main page for managing *Organisational* client credentials, that are not tied to any particular location. From here users can add, update and delete client credentials and their secrets. These credentials cannot perform verifications or pack state changes – only Reports and Secrets categories in Client Roles.

Click the 'Create New Credentials' button to setup new client credentials

Clicking the Information icon for a client role will popup a list of non-verification permissions . E.g., reporting, access control



***Client Credentials* page can be accessed from main page / tab**

Row records can be filtered

The columns are sortable. Click a heading to sort or toggle direction.

Use 'Pencil' icon to edit a client credential

Use 'trash' icon to delete client credential

For each credential, the secret(s) linked to it, whether it is primary or secondary, and the date it was created / regnerated

Secrets management icons

Swap icon swaps the secrets so that primary becomes secondary and vice versa

Delete icon to remove a secondary secret only

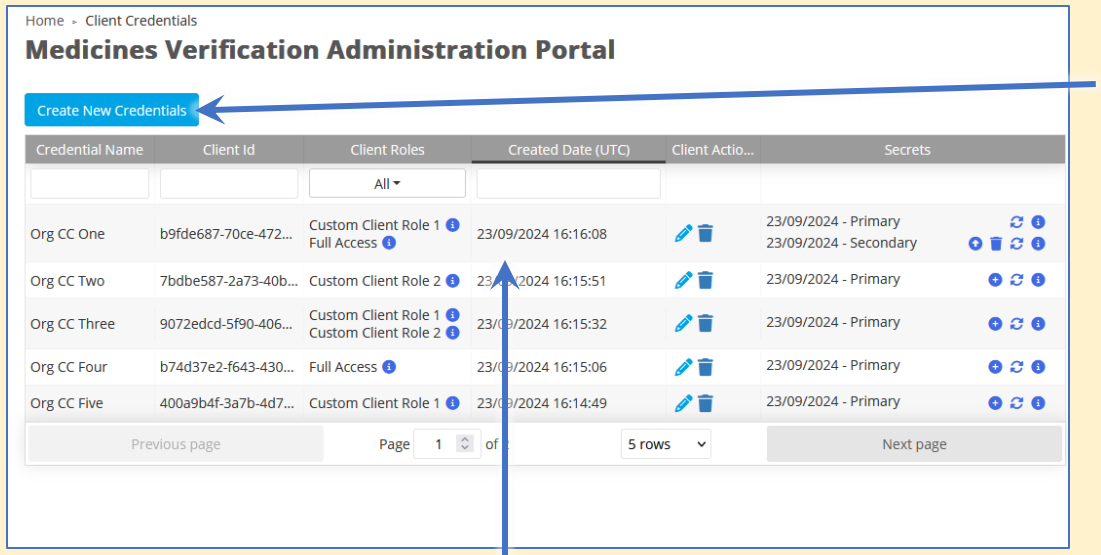
Recycle icon to regenerate a secret

Information icon to look at details of credential with either its primary or secondary secret. Note that the full secret is not displayed

'Credential Name' is a user friendly name given to the credential to identify it.

"Page next", "page previous" and Up/Down page controls can be used to scroll through list of users (depending on number of records)

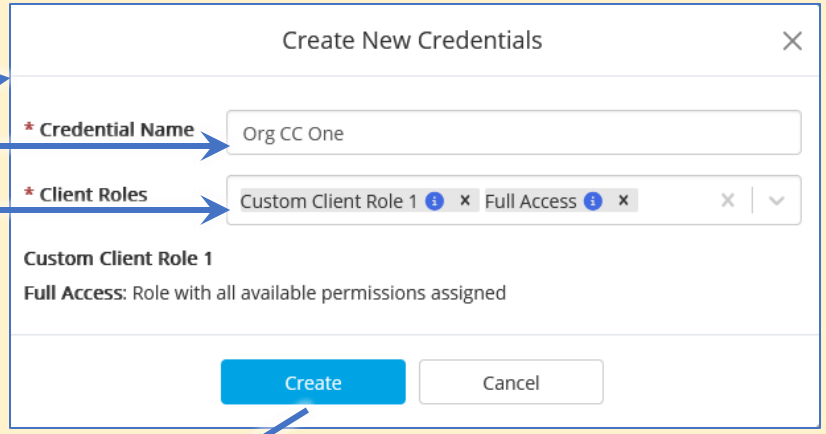
Client Credentials – Create Credentials



1. On the main Client Credentials page click the 'Create New Credentials' button. The Create Credentials dialog will popup.

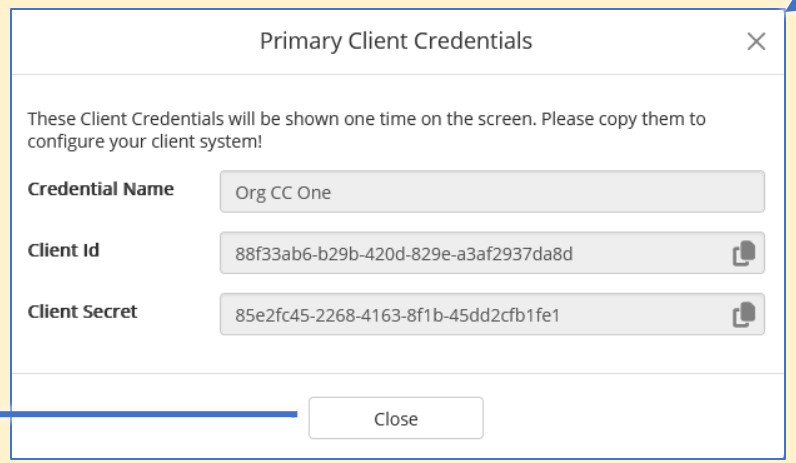
2. Type a name for the credential and select the desired role(s) from the Client Roles dropdown. The 'Create' button will become enabled. Click it.

Both fields are mandatory and multiple roles can be selected for the Client Role dropdown. Client roles can be defined on the *Client Roles* section.



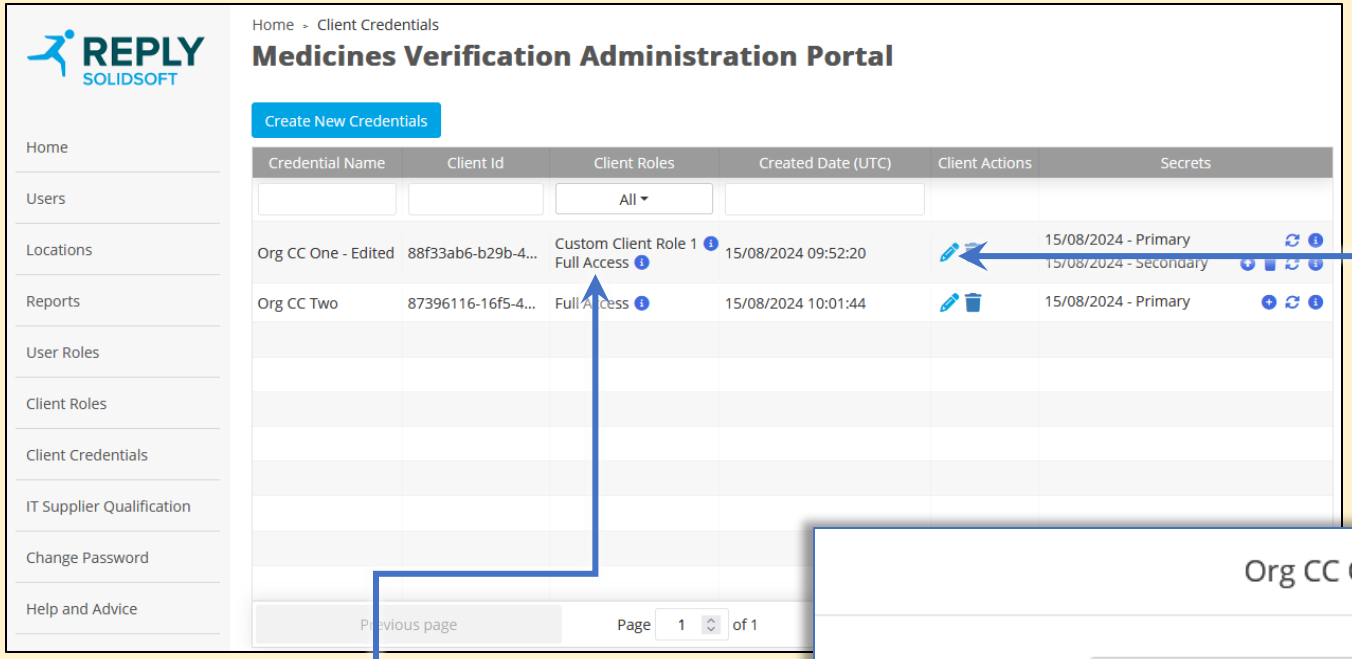
3. Click 'Create' button. The client credentials will be generated and displayed in a popup

The credentials should be noted down because this is the only time that the secret will be displayed

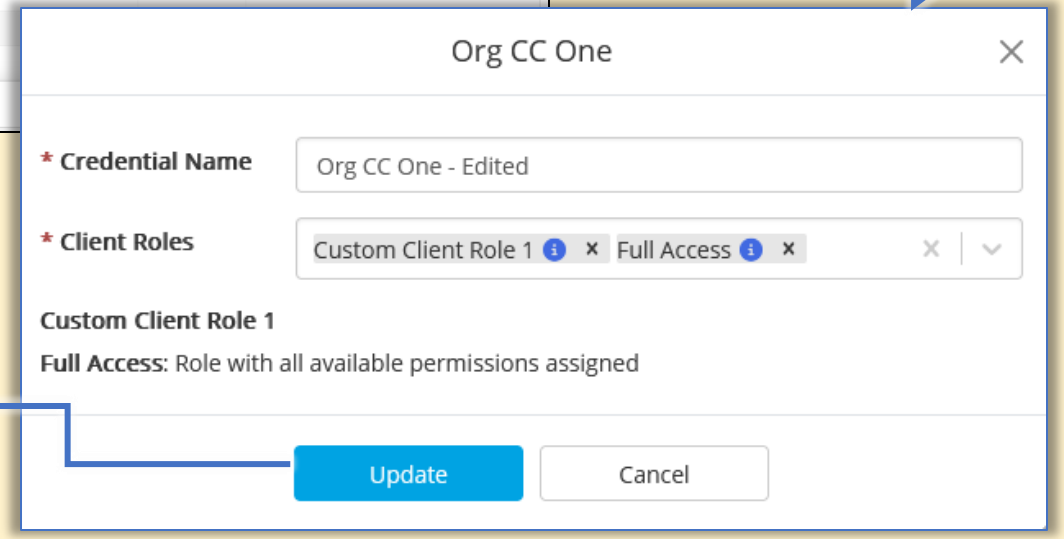


4. Click 'Close' on credentials popup. User is returned to client credentials page where the newly created credentials will be displayed

Client Credentials – Edit Credentials



1. On the main Client Credentials page click the Edit icon beside the particular credential to make changes to it. The Edit Credentials dialog will popup.



2. Make any desired changes then click the 'Update' button to confirm. The changes should be reflected on the credentials table.

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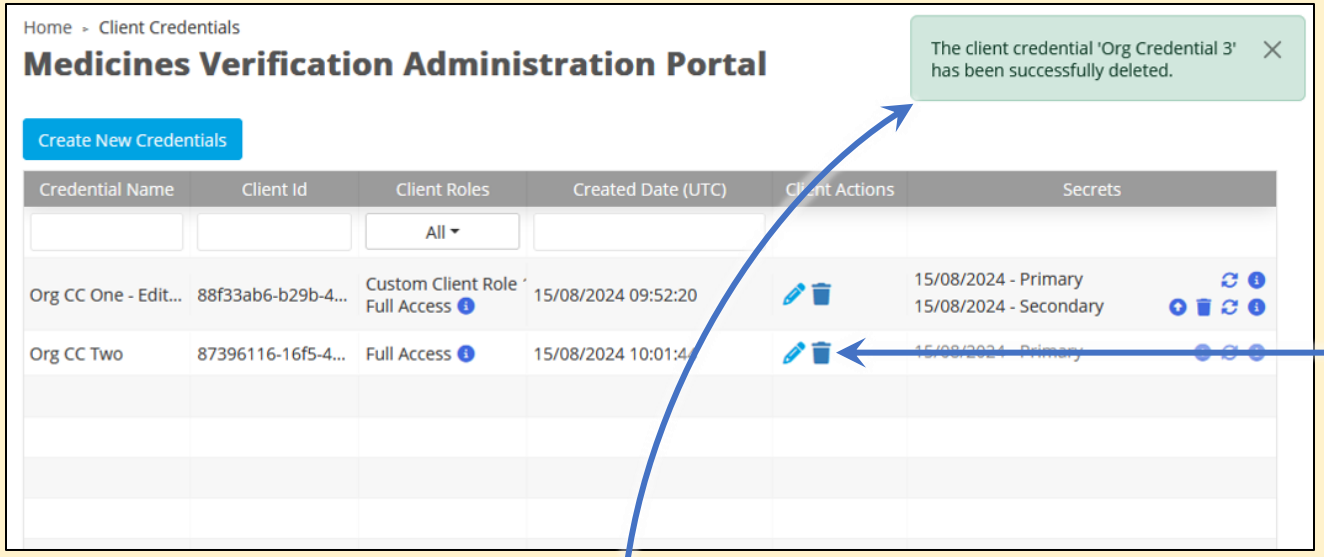
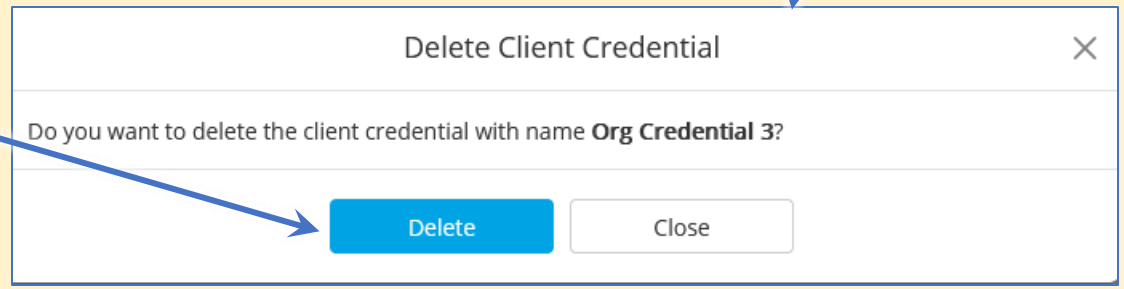
Client Credentials – Delete Credentials



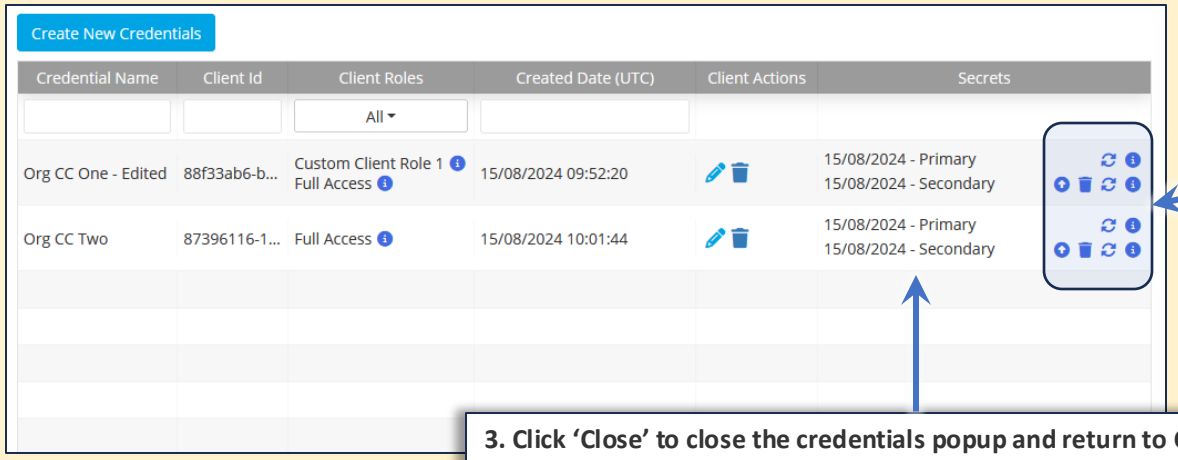
1. On the main Client Credentials page click the Edit icon beside the particular credential to make changes to it. The Edit Credentials dialog will popup.

2. Click the 'Delete' button. Dialog is dismissed and user is returned to credentials main page and a toast message is displayed.

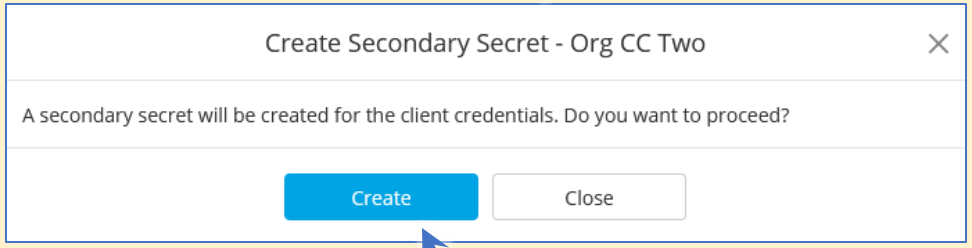
Credentials table on main page is updated



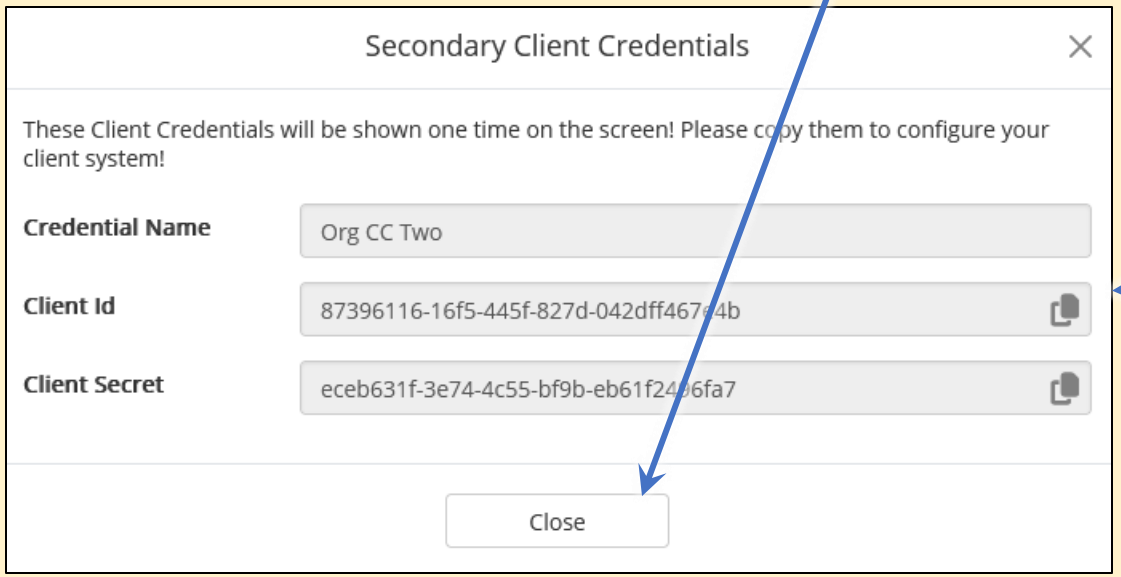
Client Credentials – Create Secondary Secret



1. When the plus icon is clicked the 'Create Secondary Secret' dialog pops up. Note that secondary secrets can be created for credentials that only have primary secrets

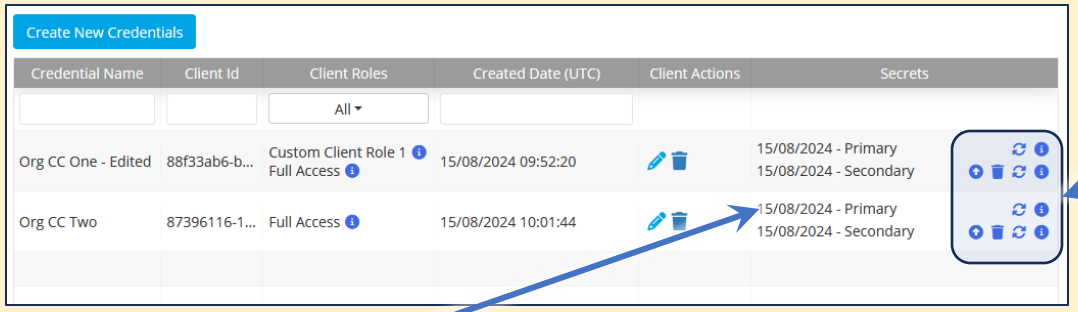


2. Click the 'Create' button to create the secondary secret. Details of the credentials including secondary secret will be displayed. Note that the client id is the same as for the primary secret, and the secret will be displayed only ONCE.



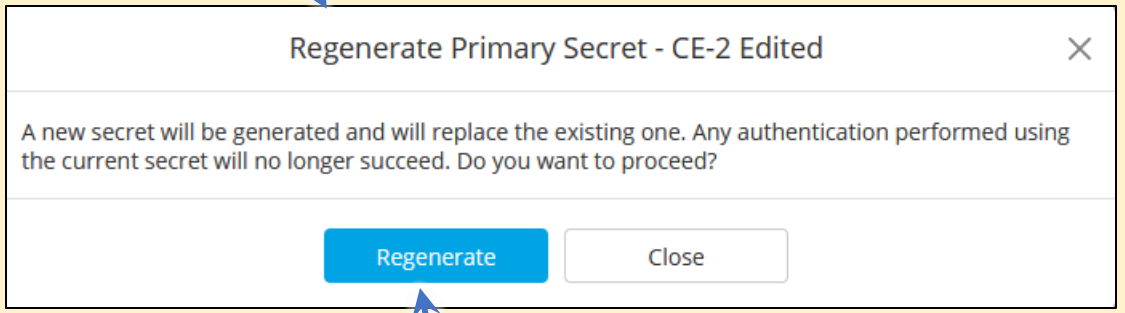
3. Click 'Close' to close the credentials popup and return to Credential page. After the secondary secret is created, an entry appears in the Credentials table with the designation and date of creation of the secondary secret

Client Credentials – Regenerate Primary Secret



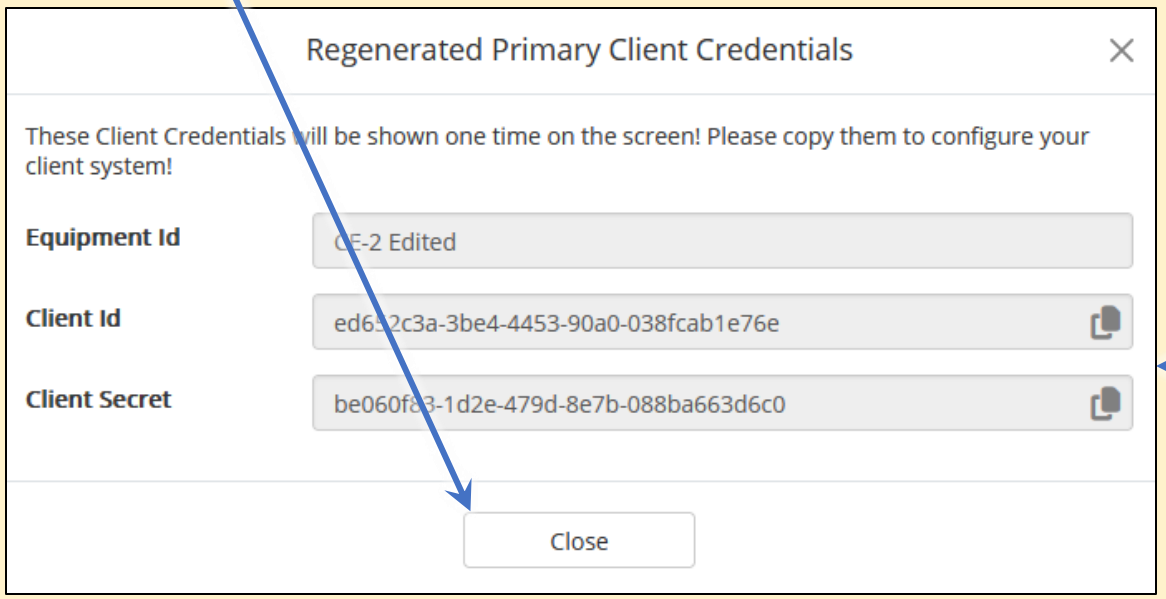
1. When the double arrow icon is clicked the 'Regenerate Primary Secret' dialog pops up.

Regeneration of secrets improves the security of end-user connections, facilitates regular renewal of authentication secrets and reduces risk of unauthorized access to the system.



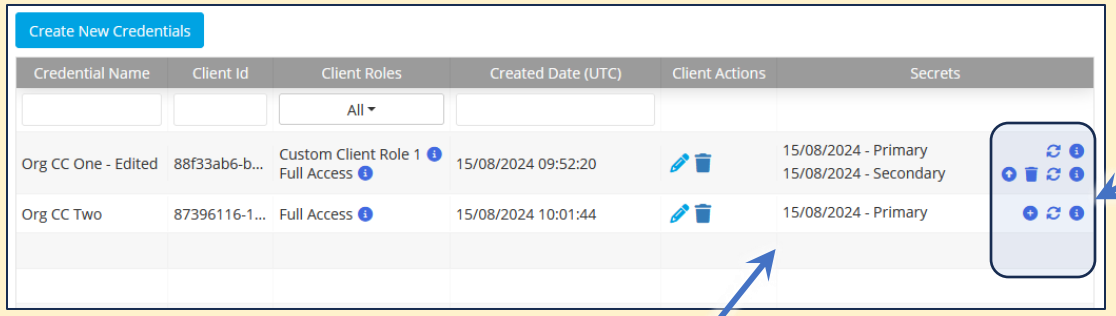
2. Click the 'Regenerate' button to confirm. Once the secret is regenerated, the old previous secret cannot be used ever again.

Details of the credentials with regenerated secret will be displayed. Note that the client id has *not* changed, and the secret will be displayed only ONCE.



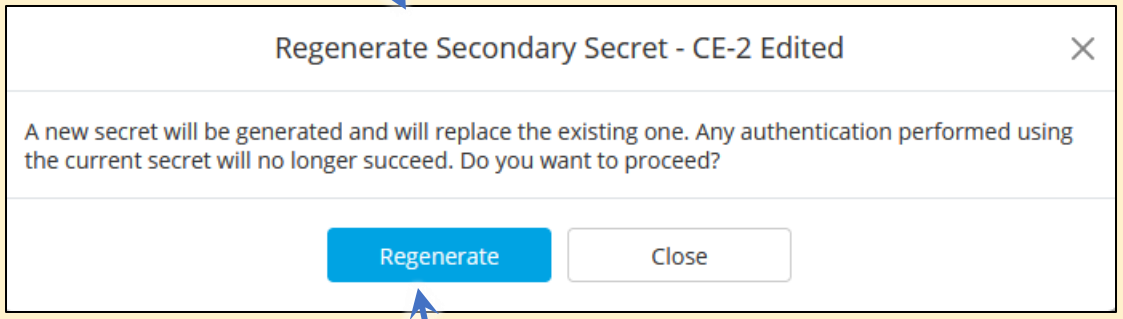
3. Click 'Close' to close the credentials popup and return to Credential page. After the secret is regenerated, the date beside the secret in the Credentials table is updated.

Client Credentials – Regenerate Secondary Secret



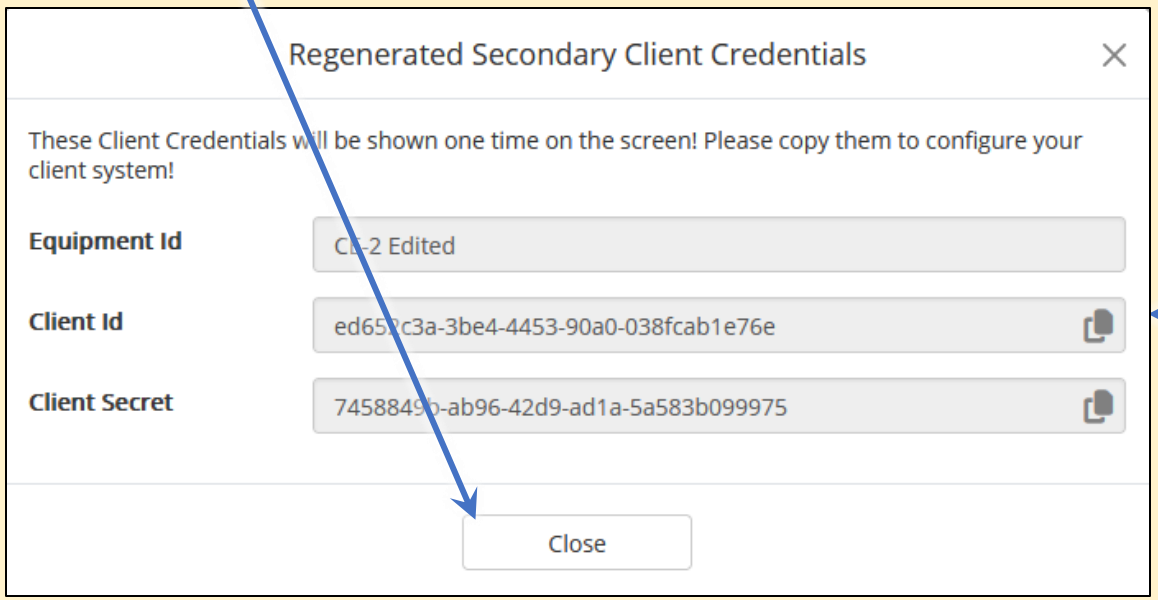
1. When the double arrow icon is clicked the 'Regenerate Secondary Secret' dialog pops up.

Regeneration of secrets improves the security of end-user connections, facilitates regular renewal of authentication secrets and reduces risk of unauthorized access to the system.



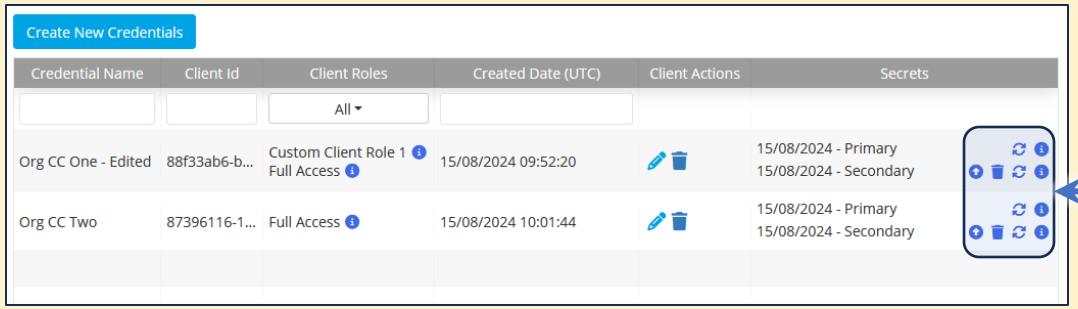
2. Click the 'Regenerate' button to confirm. Once the secret is regenerated, the old previous secret cannot be used ever again.

Details of the credentials with regenerated secret will be displayed. Note that the client id has *not* changed, and the secret will be displayed only ONCE.



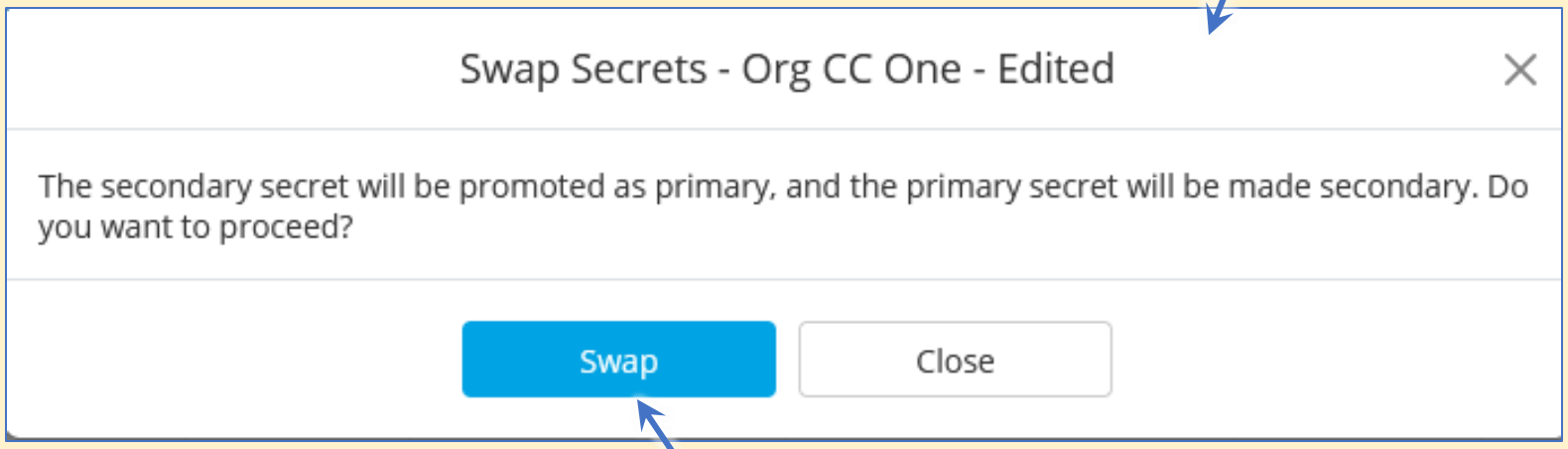
3. Click 'Close' to close the credentials popup and return to Location page. After the secret is regenerated, the date beside the secret in the Credential table is updated.

Client Credentials – Swap Secrets



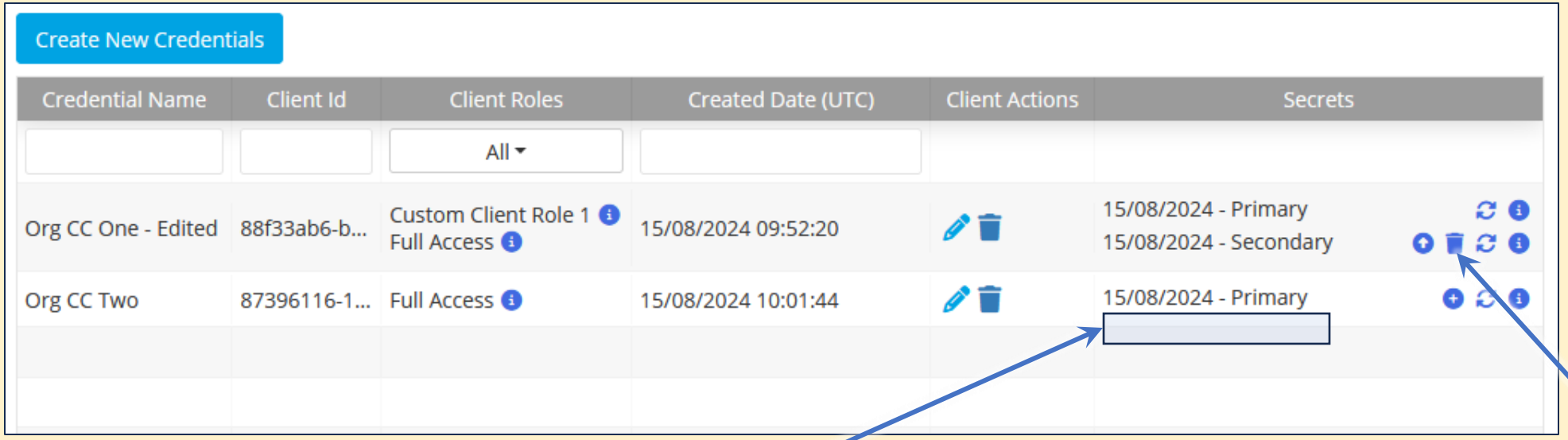
1. When the arrow up icon is clicked the 'Swap Secrets' dialog pops up. Note that the icon is only displayed for credentials that have both a primary and secondary secret.

Swapping secrets allows the designations 'Primary Secret' and 'Secondary Secret' to be exchanged. This should not affect the working of the secrets



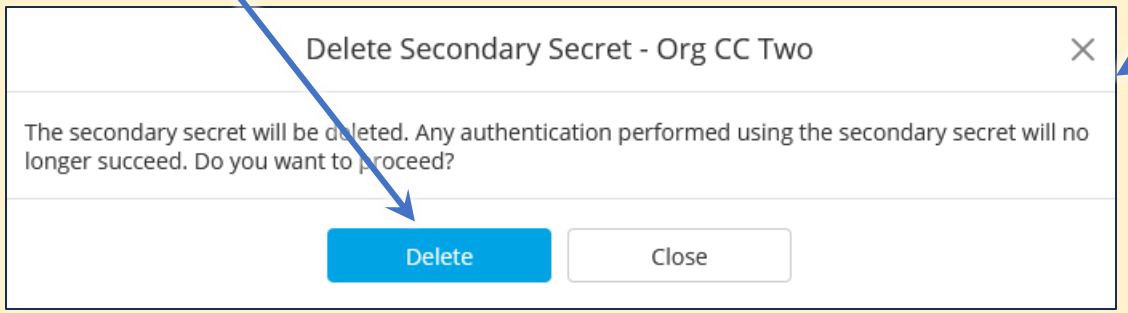
2. Click the 'Swap' button confirm that the secrets should be swapped. User is returned to the Credential list page.

Client Credentials – Delete Secondary Secret

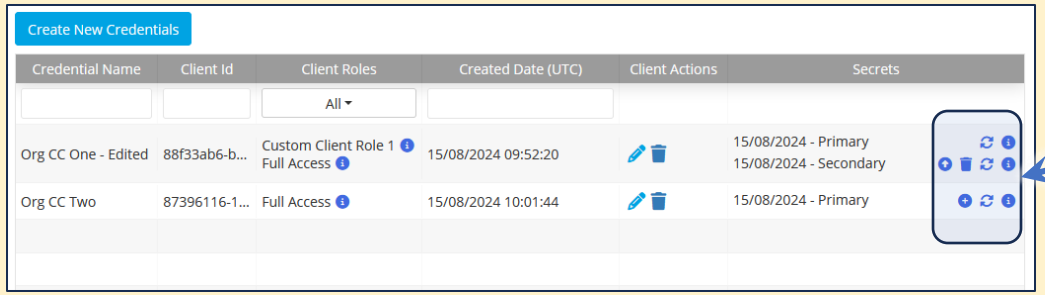


1. When the trash icon is clicked the 'Delete Secondary Secret' dialog pops up. Note that primary secrets can not be deleted.

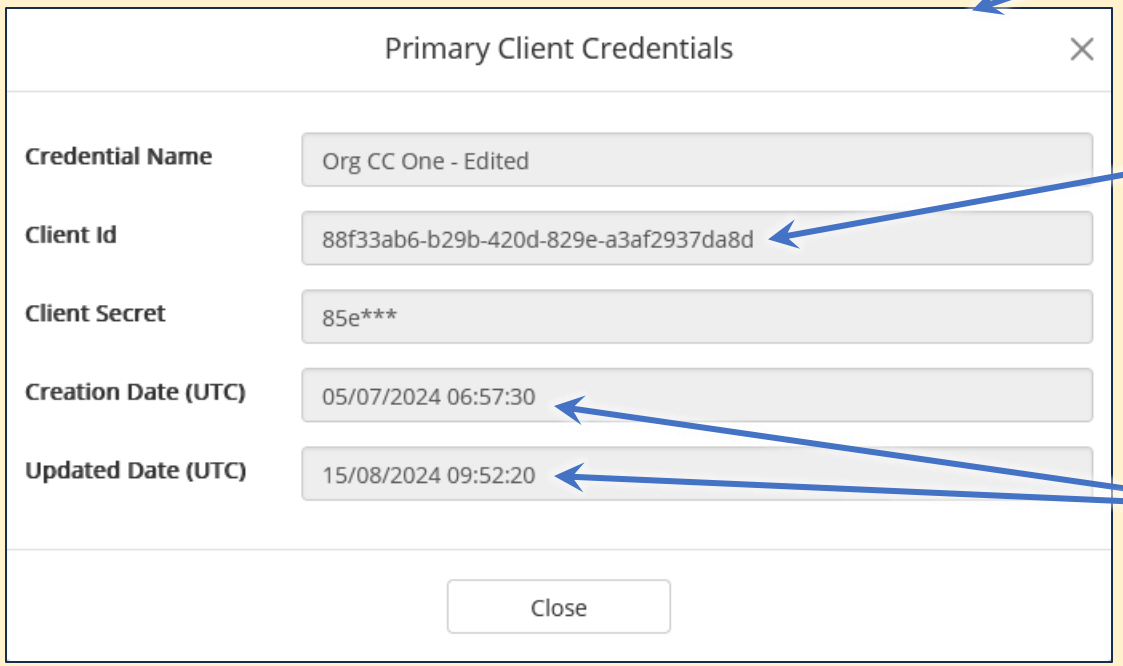
2. Click the 'Delete' button to confirm deletion. User will be returned to Credential page and Credentials table will be updated.



Client Credentials – Information



Clicking the information icon beside a secret will make the credentials information dialog popup. The same fields will be displayed for primary and secondary secrets.



If a Credential has two secrets, the ClientId will be the same for both of them

Note that the full secret is not displayed, only the first three (3) characters. If historical secrets exist pre-release 15 then six asterisks will be displayed '******'

If the secret has been regenerated then this will be reflected in the 'Updated Date' timestamp. The 'Creation Date' timestamp is set when the credential is created.

IT Supplier Qualification

The purpose of the Qualification Test Book (the ‘test book’) is to provide a set of test cases to be executed by IT Suppliers to support qualification of their systems. Following successful qualification, the IT Supplier may connect their system to their National Medicines Verification System (NMVS).

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IT Supplier Qualification - Environment

The test book will be generated for a specific NMVS Integrated Quality Environment (IQE) market. The test book can only be used for the intended market in which the associated data has been generated. The API endpoints of the intended market where the test book has been generated can be found in section 2.1 on the test book and the endpoints page within the ITE Developer Portal.

The IT Supplier Qualification Test Book can be self-service generated via the IQE NMVS Administration Qualification Test Book page. Links to the NMVS Administration Portal can also be found on the endpoints page linked above. The functionality to generate and manage IT Supplier Qualification Test Books must be assigned to a local organisation, this authorisation is provided by the NMVO. If your organisation is unable to navigate to the Qualification Test Book page within the NMVS Administration Page please contact the NMVO.

2. Qualification Test Guidance

2.1 Environment

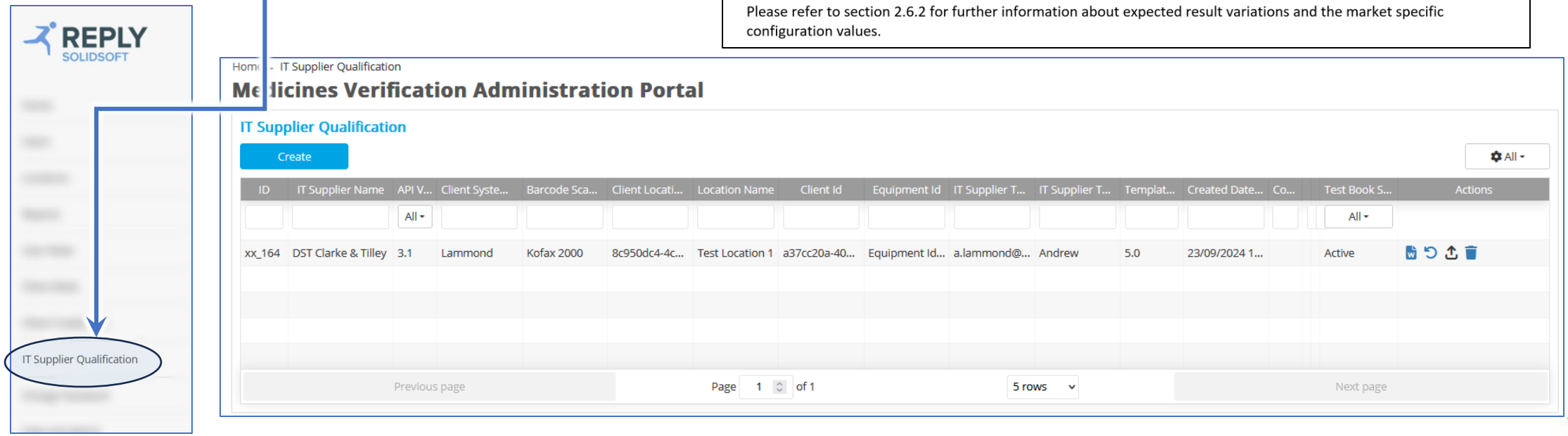
This test book has been generated for the xx NMVS Integrated Quality Environment (IQE). The client solution must consume the following endpoints:

Authorization Endpoint	https://api-xx-iqe.nmvo.eu/identity/connect/token
Pack API Endpoint	https://api-xx-iqe.nmvo.eu/verification/
Reporting API Endpoint	https://api-xx-iqe.nmvo.eu/report/

Please note the following market specific configuration values, these will be used during the testing phase to determine the expected response from certain scenarios. At the time of the test book generation the NMVS environment has been configured with the following values:

- *Double Dispense Limit:* 9
- *Double Dispense Time Limit:* 10.00:00:00
- *AMS Link (ignore if empty):* https://app.example-ams.com/AlertDetails.aspx?id={{uprcToken}}

Please refer to section 2.6.2 for further information about expected result variations and the market specific configuration values.



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IT Supplier Qualification - Portal

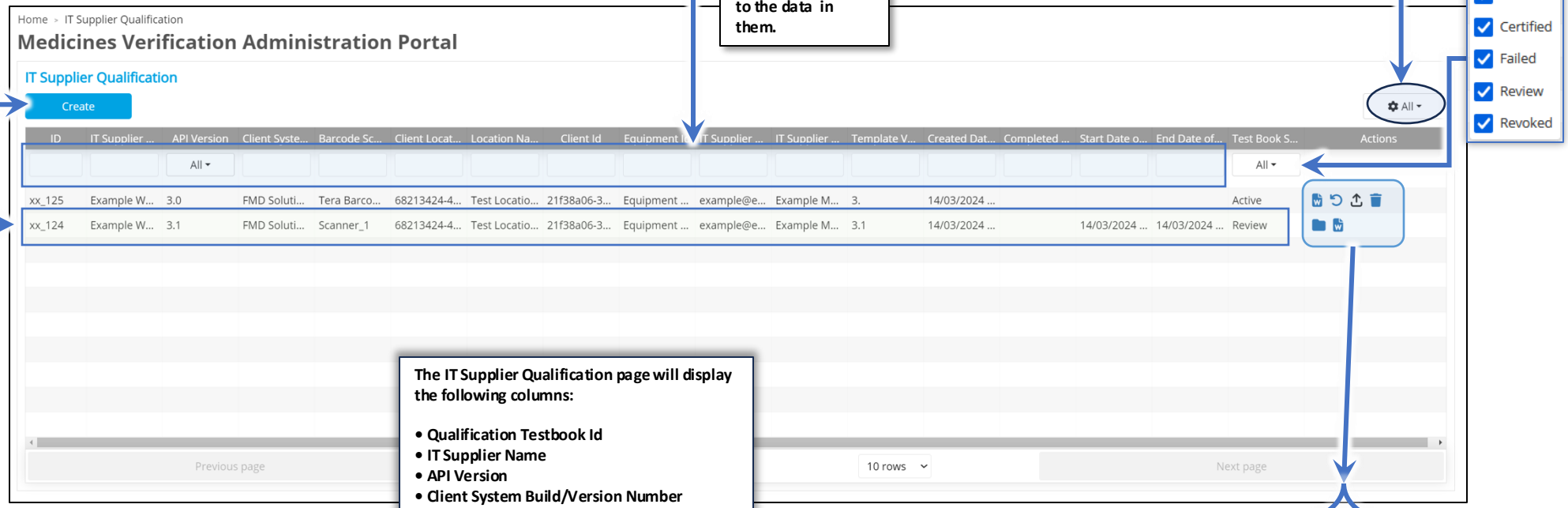
NOTE: IT Supplier Qualification functionality is only available on IQE.

Action to create a new test book

Rows in the Test Book table can be filtered according to the data in them.

Columns can be shown / hidden using column selector

Test Book status can be one of:



Active – *the default state for a test book. Testing can be performed while the test book is Active. Test data resets can be performed while Active.*

Certified – *testing has been completed and the NMVO has reviewed and certified the outcome of the test book.*

Failed – *testing has been completed and the NMVO has reviewed and considered the outcome and deemed the testing to have failed.*

Review – *the NMVO is reviewing the test evidence after submittal by the IT Supplier.*

Revoked – *when a previously certified test book has its certification revoked.*

A row is created for each generated test book containing the unique ID of the test book as well as the IT supplier information provided when the test book was generated.

It also contains dates and times of when the testing was performed as well as when the test book was generated.

The state of the test book can also be viewed here.

The IT Supplier Qualification page will display the following columns:

- Qualification Testbook Id
- IT Supplier Name
- API Version
- Client System Build/Version Number
- Barcode Scanner Model
- Client Location Id
- Location Name
- Client Id
- Equipment Id
- IT Supplier Test Manager Contact Email
- IT Supplier Test Manager Contact Name
- Template Version
- Created Date (UTC)
- Completed Date (UTC)
- Start Date of Testing (UTC)
- End Date of Testing (UTC)
- Test Book Status
- Actions

Actions

Manage Test Evidence

View submitted test evidence by the IT against a test book that is not Active.

Download a Test Book

Downloads the docx. generated Qualification Test Book.

Reset Test Data

Allows the IT supplier to reset the test data for an Active test book.

Submit Test Book

Clicking this button will open the submit test book. The IT supplier can upload supporting test evidence. Finalising a submittal will move the test book from Active to Review.

Delete Test Book

Allows the IT supplier to delete a test book. This option is available on Active, Failed and Revoked test books.

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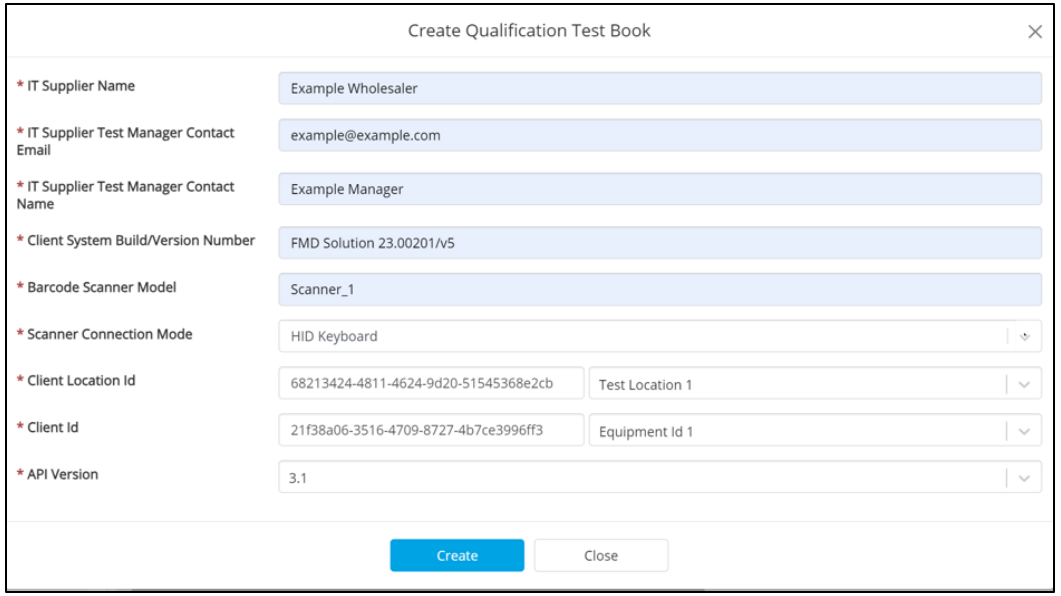
IT Supplier Qualification – Create

The IT Supplier will be required to submit the following information within section 2.5 of their generated test book. The majority of this information will be requested at the point of self-service generation of a test book and will be automatically added to the generated test book. At the point of submitting the test book please ensure that this section is completed and the information provided is correct.

- IT Supplier name* – name of supplier performing the testing.
- IT Supplier test manager contact email* – the contact email address of the manager performing the testing.
- IT Supplier test manager contact name* – the contact name of the manager performing the testing.
- *Environment Tested Against – the national market IQE that testing is being performed against. This information will be automatically generated.*
- Client System Build/Version Number* – the version of their client software in the 'User-Agent' header. This may be used to check if the software being used is the same as that which was certified, and to identify if any issues are related to a specific client type.
- Barcode Scanner Model* – the vendor and model of the barcode used for testing.
- Scanner Connection Mode* – the method of connection for which the scanner connects to the computer. I.e. BT, USB, HID Keyboard, Keyboard Wedge, Serial port, etc. See Integrating Scanning Hardware for more details.
- Start and End Time of Testing – the time when the testing was performed, this will be used by Solidsoft Reply operations to extract transaction logs for the testing activity. *This information shall be updated by the IT supplier and provided as part of evidence when submitting the test book for review.*
- Client Location ID* – used by the system to extract transaction logs for the testing activity.
- Client ID* – used by the system to extract transaction logs for the testing activity.
- Client Equipment ID* – used by the system to extract transaction logs for the testing activity.
- National System API Version* – version of the API used to integrate with the National System, specified by the "emvs-api-version" HTTP header in the requests (e.g. 3.0). This will be set based on the API version of the requested test book.

Information with an * shall be provided at the point of generating the test book. This information shall be inserted automatically into section 2.5 of the generated test book.



2.5 IT Supplier Information

IT Supplier Name	Example Wholesaler
IT Supplier Test Manager Contact Email	example@example.com
IT Supplier Test Manager Contact Name	Example Manager
Environment Tested Against	xx IQE
Client System Build/Version Number	FMD Solution 23.00201/v5
Barcode Scanner Model	Scanner_1
Scanner Connection Mode[1]	HID Keyboard
Start and End Date/Time of Testing (UTC)	<Enter Start and End Date/Time>
Client Location ID	68213424-4811-4624-9d20-51545368e2cb
Client ID	21f38a06-3516-4709-8727-4b7ce3996ff3
Client Equipment ID	Equipment Id 1
National System API Version	3.1

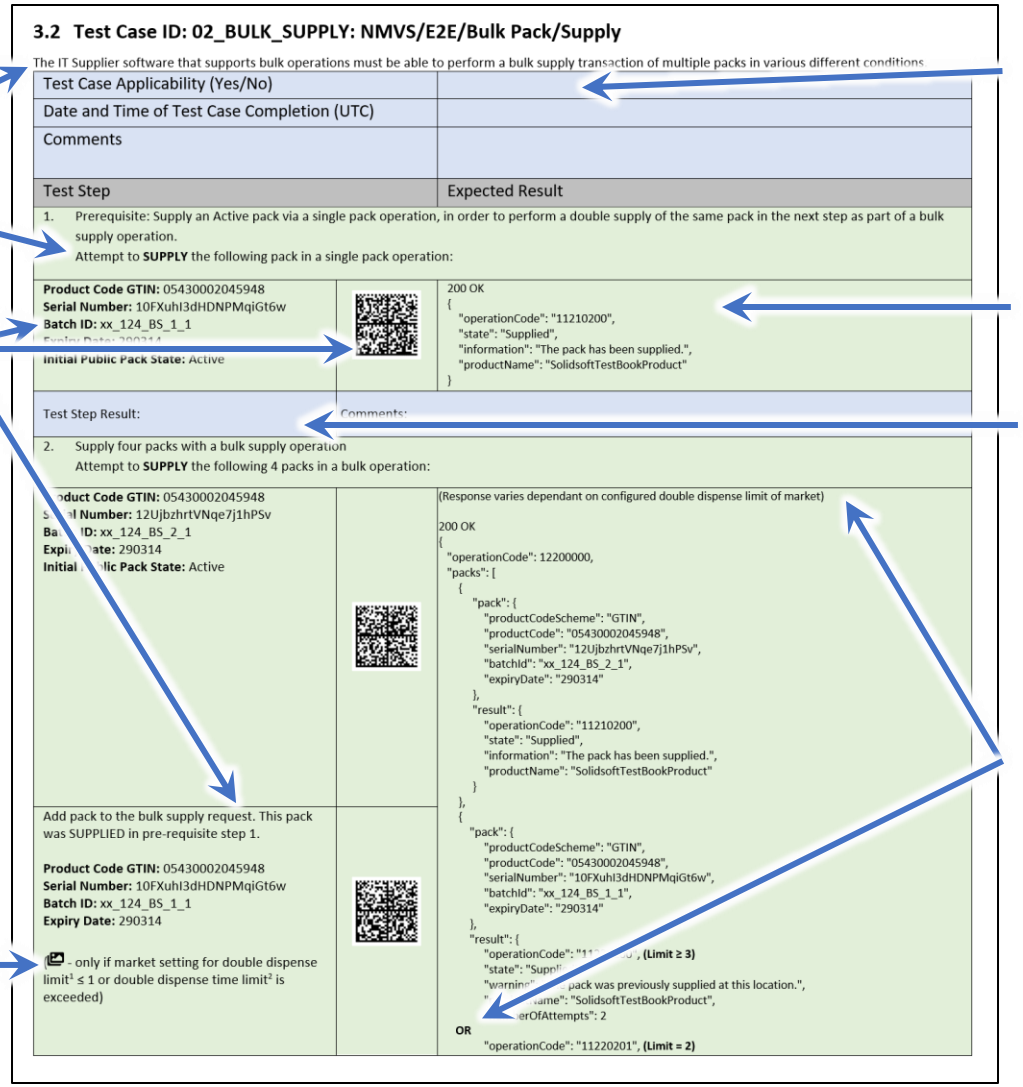
Table 1: IT Supplier Information

IT Supplier Qualification – Test Data and Test Book

Test data associated with each test case is based upon functional scenarios, these scenarios are explained at the start of each test case and test step.

The scenario and the action that shall be provided within the test step.

The test product, batch, serial number, 2D data matrix barcode and expected result will be provided for each test step. In some cases you may be required to perform an action again on a previous test step pack.



3.2 Test Case ID: 02_BULK_SUPPLY: NMVS/E2E/Bulk Pack/Supply

The IT Supplier software that supports bulk operations must be able to perform a bulk supply transaction of multiple packs in various different conditions

Test Case Applicability (Yes/No)	
Date and Time of Test Case Completion (UTC)	
Comments	

Test Step		Expected Result
1. Prerequisite: Supply an Active pack via a single pack operation, in order to perform a double supply of the same pack in the next step as part of a bulk supply operation. Attempt to **SUPPLY** the following pack in a single pack operation:		

Product Code GTIN: 05430002045948
Serial Number: 10FXuhI3dHDNPMqiGt6w
Batch ID: xx_124_BS_1_1
Expiry Date: 290314
Initial Public Pack State: Active
		200 OK
		{
		"operationCode": "11210200",
		"state": "Supplied",
		"information": "The pack has been supplied.",
		"productName": "SolidsoftTestBookProduct"
		}

Test Step Result:	Comments:	
2. Supply four packs with a bulk supply operation Attempt to **SUPPLY** the following 4 packs in a bulk operation:		

Product Code GTIN: 05430002045948
Serial Number: 12UjbzhrtVNqe7j1hPSv
Batch ID: xx_124_BS_2_1
Expiry Date: 290314
Initial Public Pack State: Active
		(Response varies dependant on configured double dispense limit of market)
		
		200 OK
		{
		"operationCode": 12200000,
		"packs": [
		{
		"pack": {
		"productCodeScheme": "GTIN",
		"productCode": "05430002045948",
		"serialNumber": "12UjbzhrtVNqe7j1hPSv",
		"batchId": "xx_124_BS_2_1",
		"expiryDate": "290314"
		},
		"result": {
		"operationCode": "11210200",
		"state": "Supplied",
		"information": "The pack has been supplied.",
		"productName": "SolidsoftTestBookProduct"
		}
		},
		{
		"pack": {
		"productCodeScheme": "GTIN",
		"productCode": "05430002045948",
		"serialNumber": "10FXuhI3dHDNPMqiGt6w",
		"batchId": "xx_124_BS_1_1",
		"expiryDate": "290314"
		},
		"result": {
		"operationCode": "11[illegible]", **(Limit ≥ 3)**
		"state": "Supp[illegible]
		"warning[illegible] pack was previously supplied at this location.",
		"[illegible]ame": "SolidsoftTestBookProduct",
		"[illegible]erOfAttempts": 2
		OR
		"operationCode": "11220201", **(Limit = 2)**

Add pack to the bulk supply request. This pack was SUPPLIED in pre-requisite step 1. **Product Code GTIN:** 05430002045948 **Serial Number:** 10FXuhI3dHDNPMqiGt6w **Batch ID:** xx_124_BS_1_1 **Expiry Date:** 290314 - only if market setting for double dispense limit[1] ≤ 1 or double dispense time limit[2] is exceeded)		

Test case applicability and the time of test completion (if applicable) must be provided for each test case.

The expected result of the action performed is provided and must match what the client received. The expected results lines up to the test step data in the left hand column.

The result of the test step must also be completed.

Pass - the response received is the same as the expected result

Fail - the response received differs from the expected result

N/A- the test scenario is not applicable to the IT Suppliers solution (e.g., a pharmacy solution unable to perform wholesaler requests)

The results from certain test cases within the test book vary depending on differences in market configuration such as the double dispense limit and the double dispense time limit. Where this is occurs the expected results will inform that there are varied responses and contain each of the possible expected results, separated by 'OR'.

There are several steps throughout the test book that will generate alert IDs. These test steps are listed below and the "images" icon is displayed within each Test Case to indicate the step at which a screenshot is required.

Ensure the following evidence is clearly presented or attached to your completed test book for each test step that generates an alert ID:

- Alert ID
- Result Code
- Operation Code
- Warning

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IT Supplier Qualification – Test Evidence

Test evidence can be submitted through the NMVS Administration Portal upon submitting the test book for review.

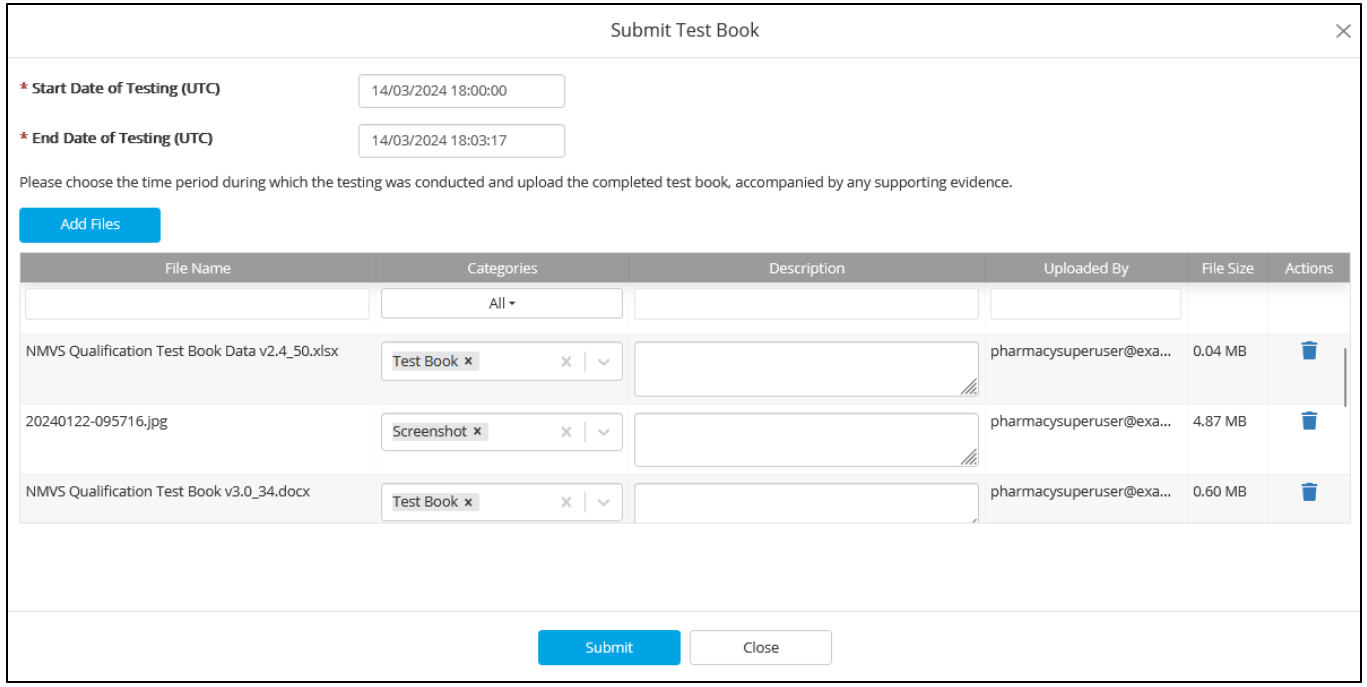
The testing period should be specified, along with any other necessary testing evidence.

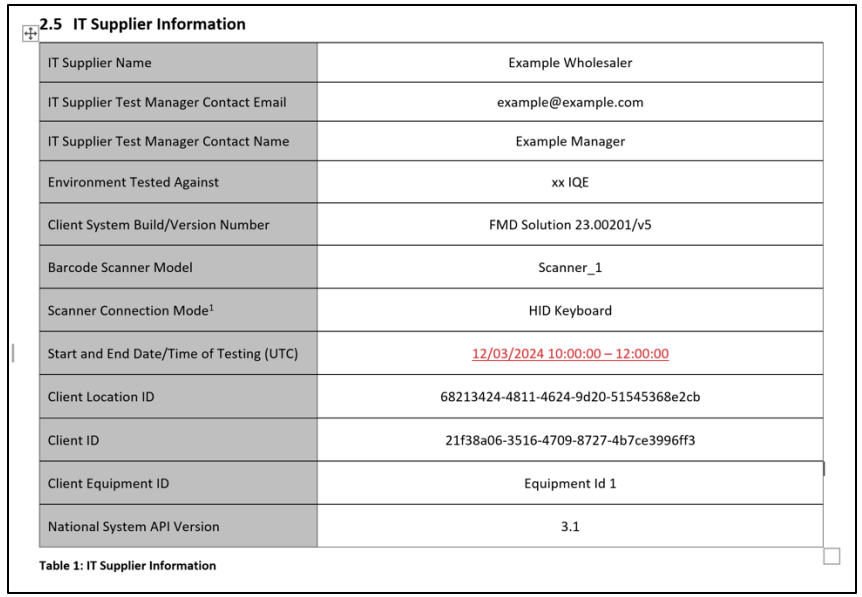
Files may be attached by using the 'Add Files' button, and there is an option to categorise file types and provide a description.

Please note that the permissible file types are limited to jpg, pdf, log, txt, docx, png, csv, and xlsx. When a test book is under review further test evidence cannot be submitted via the NMVS Administration Portal.

Where a test case generates an alert and causes the Client System Graphical User Interface (GUI) to display a warning, it is necessary to take a screenshot of the warning and record it. The IT supplier is required to return the generated Qualification Test Book, with all necessary information filled in (IT Supplier Information, Test Case Applicability, and Test Step Results). The IT supplier is also required to submit transaction logs of all transactions performed as part of the testing with the completed test book (in either an Excel or CSV file format).

Please note that sections of the test book that are deemed incomplete, and missing required evidence, will require resubmission and will cause delay in qualification.

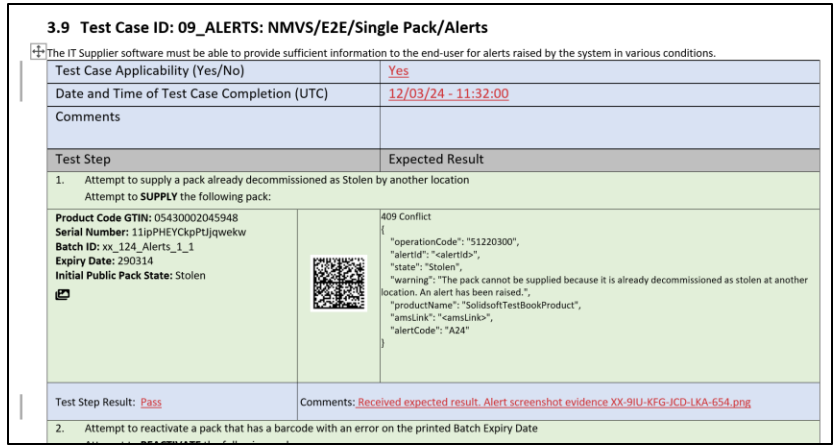




2.5 IT Supplier Information

IT Supplier Name	Example Wholesaler
IT Supplier Test Manager Contact Email	example@example.com
IT Supplier Test Manager Contact Name	Example Manager
Environment Tested Against	xx IQE
Client System Build/Version Number	FMD Solution 23.00201/v5
Barcode Scanner Model	Scanner_1
Scanner Connection Mode[1]	HID Keyboard
Start and End Date/Time of Testing (UTC)	12/03/2024 10:00:00 – 12:00:00
Client Location ID	68213424-4811-4624-9d20-51545368e2cb
Client ID	21f38a06-3516-4709-8727-4b7ce3996ff3
Client Equipment ID	Equipment Id 1
National System API Version	3.1

Table 1: IT Supplier Information



3.9 Test Case ID: 09_ALERTS: NMVS/E2E/Single Pack/Alerts

The IT Supplier software must be able to provide sufficient information to the end-user for alerts raised by the system in various conditions.

Test Case Applicability (Yes/No)	Yes
Date and Time of Test Case Completion (UTC)	12/03/24 - 11:32:00
Comments	

Test Step	Expected Result

1. Attempt to supply a pack already decommissioned as Stolen by another location
Attempt to **SUPPLY** the following pack:
Product Code GTIN: 05430002045948
Serial Number: 11ipPHEYCkpPtJjqwekw
Batch ID: xx_124_Alerts_1_1
Expiry Date: 290314
Initial Public Pack State: Stolen
	409 Conflict
	{
	"operationCode": "51220300",
	"alertId": "<alertId>",
	"state": "Stolen",
	"warning": "The pack cannot be supplied because it is already decommissioned as stolen at another location. An alert has been raised.",
	"productName": "SolidsoftTestBookProduct",
	"amsLink": "<amsLink>",
	"alertCode": "A24"
	}

Test Step Result: Pass	Comments: Received expected result. Alert screenshot evidence XX-9IU-KFG-JCD-LKA-654.png
2. Attempt to reactivate a pack that has a barcode with an error on the printed Batch Expiry Date	

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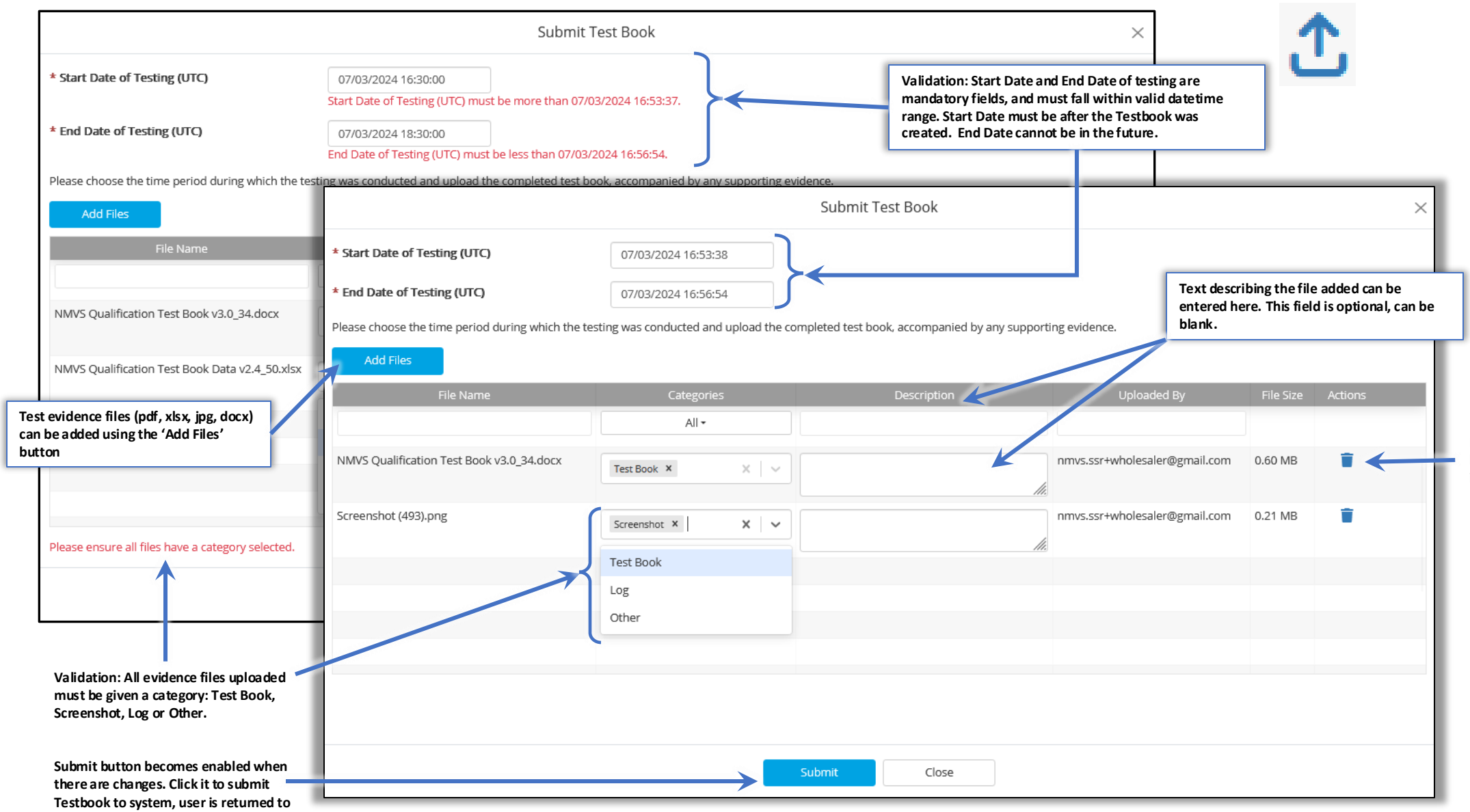
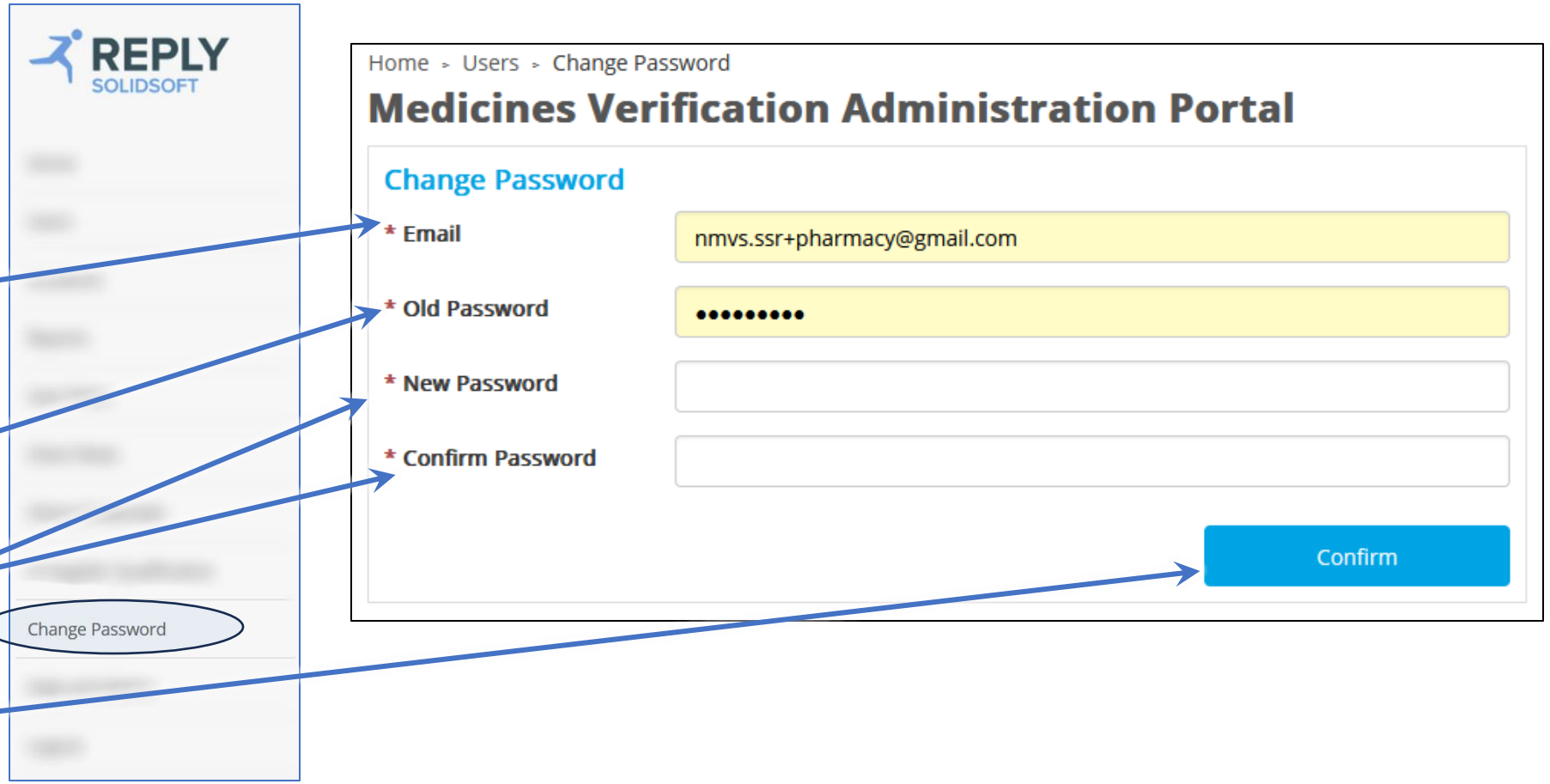
IT Supplier Qualification – Action Submit Testbook



Change Password

The 'Change Password' screen can be used to change the password of any active user registered via the Administration Portal.

1. Enter the email address associated with the user account that requires a new password.
2. Enter the current password that needs to be changed.
3. Enter and confirm the new password.
4. Select the 'Confirm' button.



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Emergency Verification Application (EVA)

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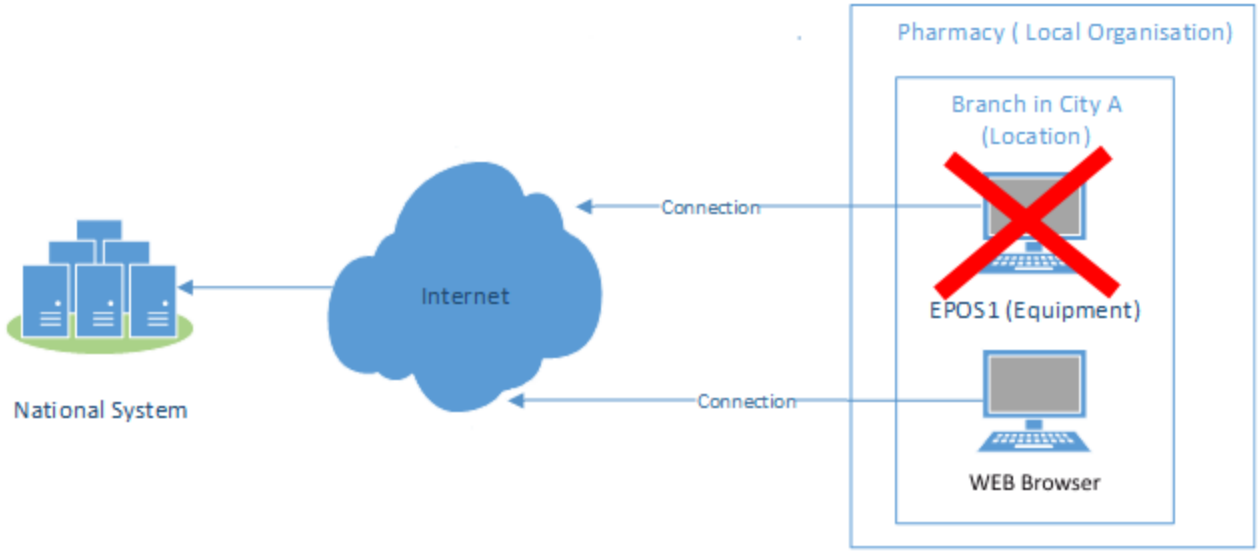
EVA - What is the EVA and how is it used

- **The Emergency Verification Application (EVA) provides support for business continuity in the event that a Client System fails. It can be accessed from any computer that has an attached keyboard, a supported web browser and internet connectivity.**
- **The EVA is accessed via a web URL that is unique to each market.**
- **The EVA can be used to verify and decommission packs of medicine. It does not support a scanner, and is not intended to be used as a permanent replacement for an integrated client system.**
- **This method of drug pack verification is intended for use when Electronic Point of Sale equipment (e.g. cash till/register) is unavailable at a pharmacy or wholesaler.**
- **Individuals wishing to use the EVA must already have approved user accounts with their National System, as set up via the NMVS Administration Portal. Users must have successfully completed the registration process.**
- **Options presented with the EVA will depend on the type of user; pharmacy users and wholesaler users are presented with a different set of options:**
  - **Pharmacists** can decommission packs as: *Destroyed*, *Sample and Supplied*
  - **Wholesalers** can decommission packs as : *Destroyed*, *Sample, Supplied , Locked, Exported and Stolen*
- ***Note:*** pack reactivation via the EVA is not permitted nor the decommision as Free Sample, which is not the same decommission reason as Sample.



EVA Client Requirements

- **Hardware: Keyboard and mouse input devices. Colour display minimum resolution 1280x600.**
- **Operating System (OS): Any OS in current support by Microsoft.**
- **Browser: Any browser in current support by Microsoft, Google or Mozilla. JavaScript required.**
- **Network: Unrestricted TCP network port access.**
- **Internet Connectivity: Yes.**

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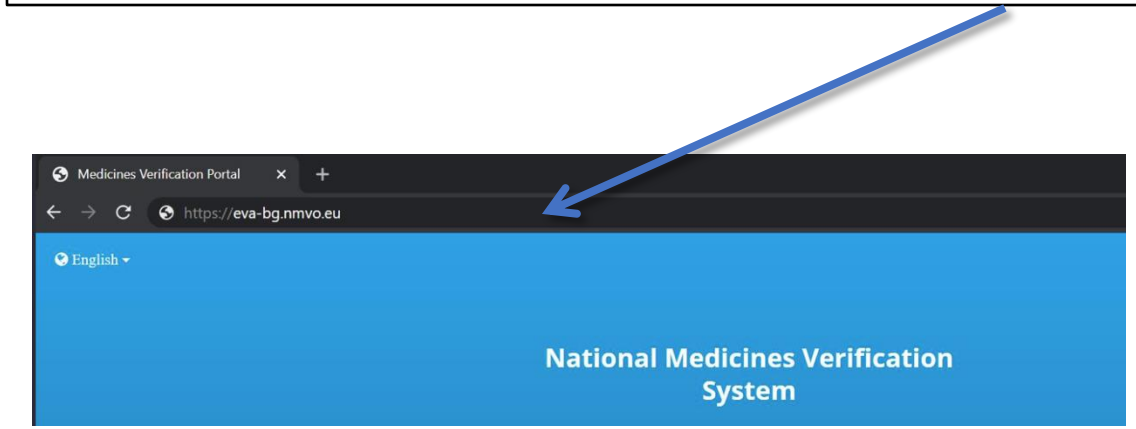
EVA - Portal URLs

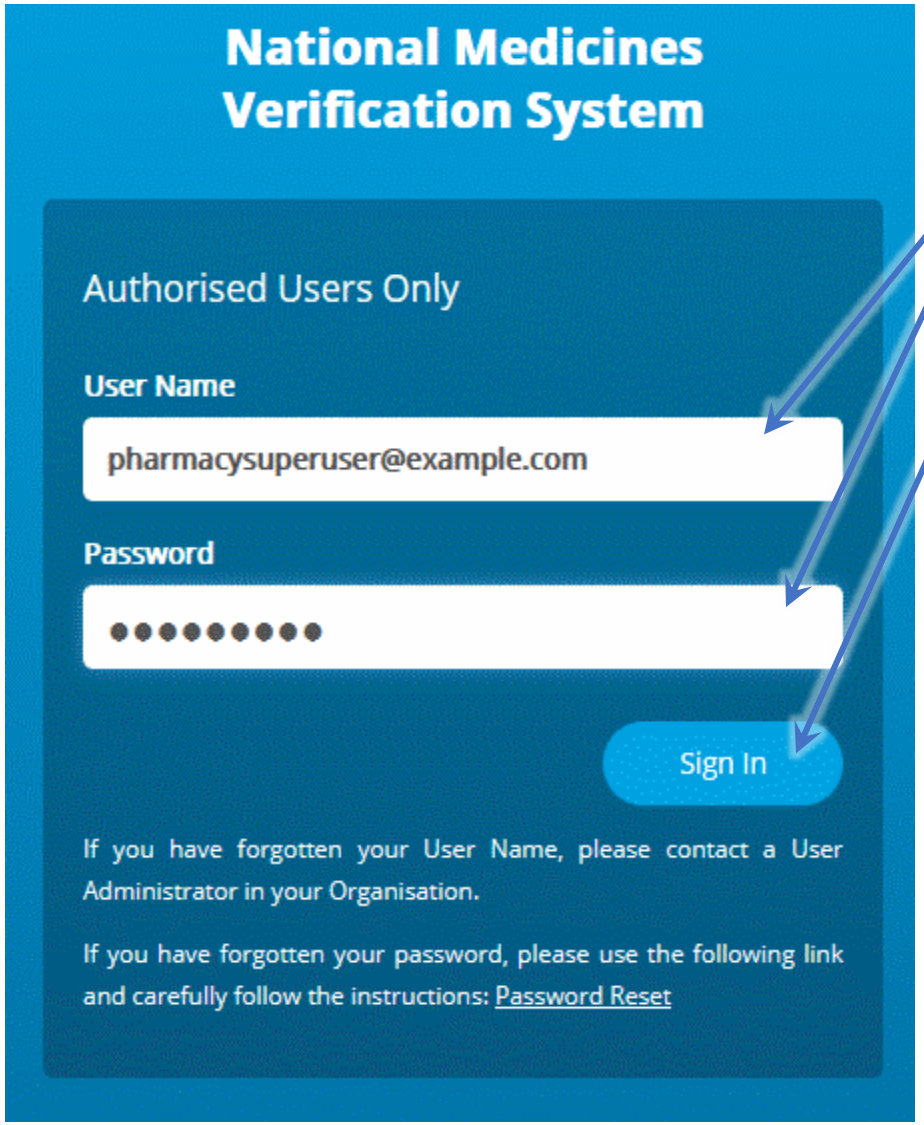
Each NMVO has its own EVA which is accessed via a unique URL:

Bulgaria: https://eva-bg.nmvo.eu
Croatia: https://eva-hr.nmvo.eu
Cyprus: https://eva-cy.nmvo.eu
Czech Republic: https://eva-cz.nmvo.eu
Denmark: https://eva-dk.nmvo.eu
Iceland: https://eva-is.nmvo.eu
Finland https://eva-fi.nmvo.eu
Ireland: https://eva-ie.nmvo.eu
Lithuania: https://eva-lt.nmvo.eu
Malta: https://eva-mt.nmvo.eu
Slovenia: https://eva-si.nmvo.eu
Sweden: https://eva-se.nmvo.eu
Switzerland: https://eva-ch.nmvo.eu

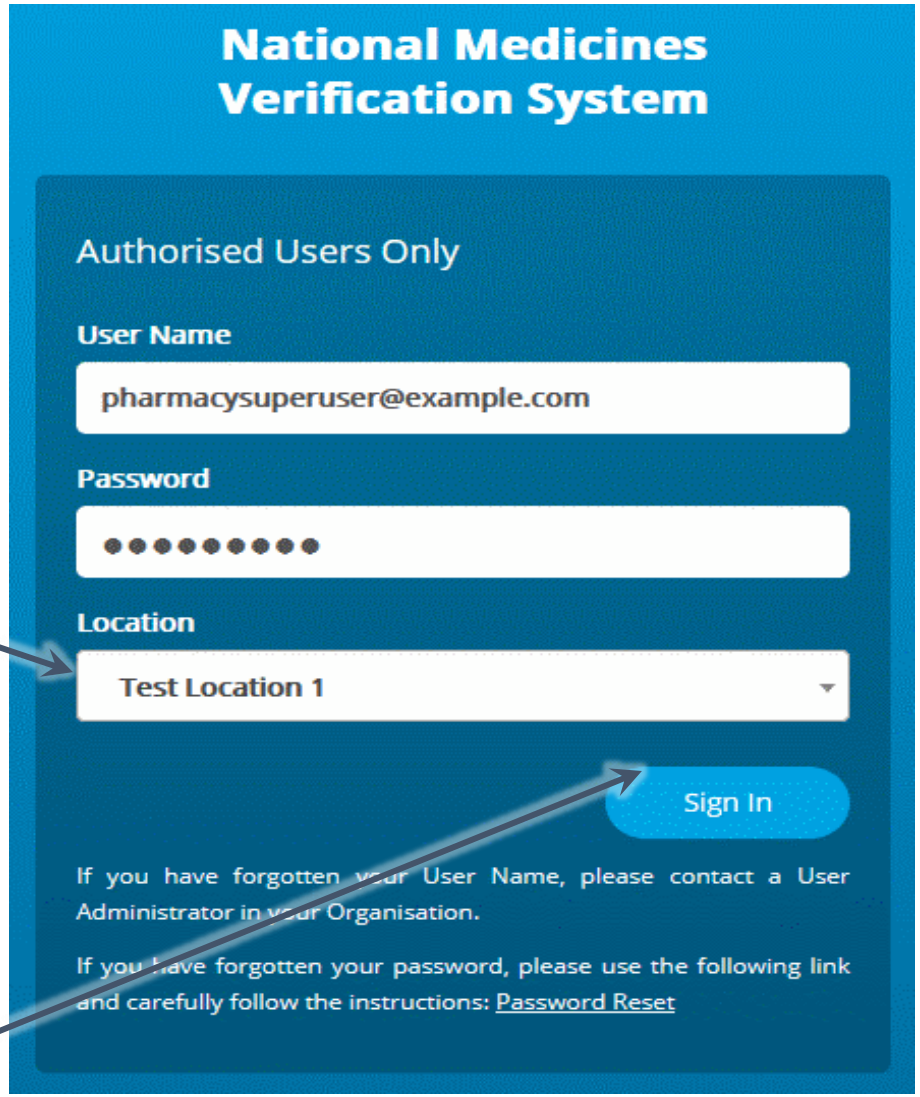
To access your chosen EVA, open a supported web browser and enter the URL into the address field, then select 'Enter' on the keyboard.



EVA - Login to the Portal



1. **Enter an approved user name and password in the login screen (the user name is the email address).**
2. **Click 'Sign In'.**
3. **Select your current physical location from the drop-down list. This list is created from location details supplied via the Administration Portal. A user must be associated with a location since any packs that they decommission must have the location of decommissioning associated with them.**
4. **If the user has already been assigned default location then user will not be prompted to choose the location.**
5. **Click 'Sign In' again.**



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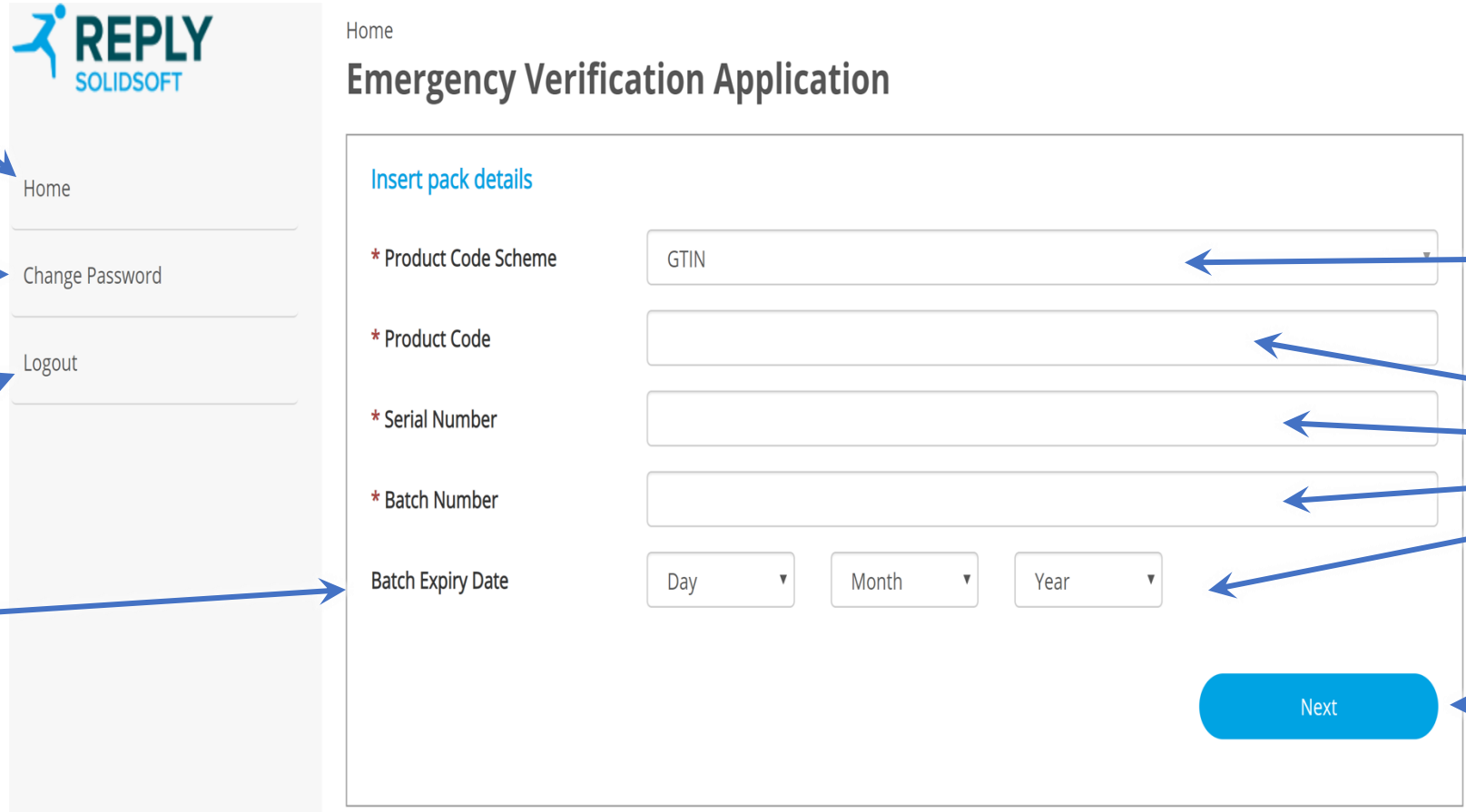
EVA - Home Screen

The 'HomeScreen' is presented after login. Return to this screen at any time by selecting the 'Home' menu option.

The 'Change Password' menu option is used to change the password of any Active user.

The 'Logout' menu option is used to exit the EVA.

The 'Pack Details' section is where drug details are entered via keyboard. Details must be entered as they appear on the pack.



Select 'GTIN' or 'PPN' from the drop down list.

Pack information

Select 'Next' once all pack information has been entered.

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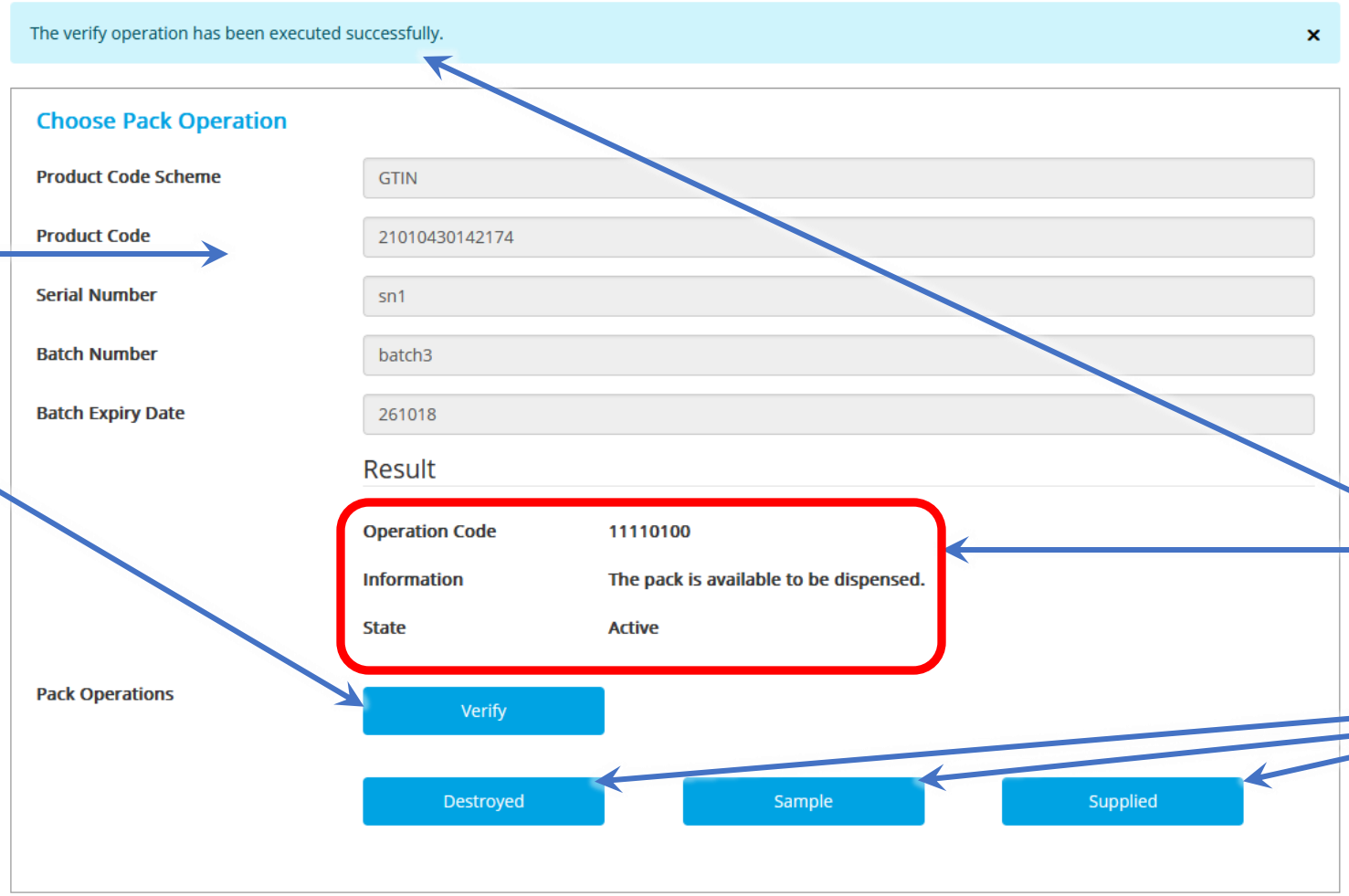
EVA - Pack Operations – Pharmacy – Verify Success

Pack details entered via the 'HomeScreen' are displayed again on the 'Pack Details Screen'.

1. Select the 'Verify' option to verify the pack details. Pack information is verified against the National System.



2. Verification results are displayed above the 'Verify' option and at the top of the screen.

3. Following successful verification, the pack may be marked as 'Destroyed', 'Supplied' or 'Sample' via option buttons.

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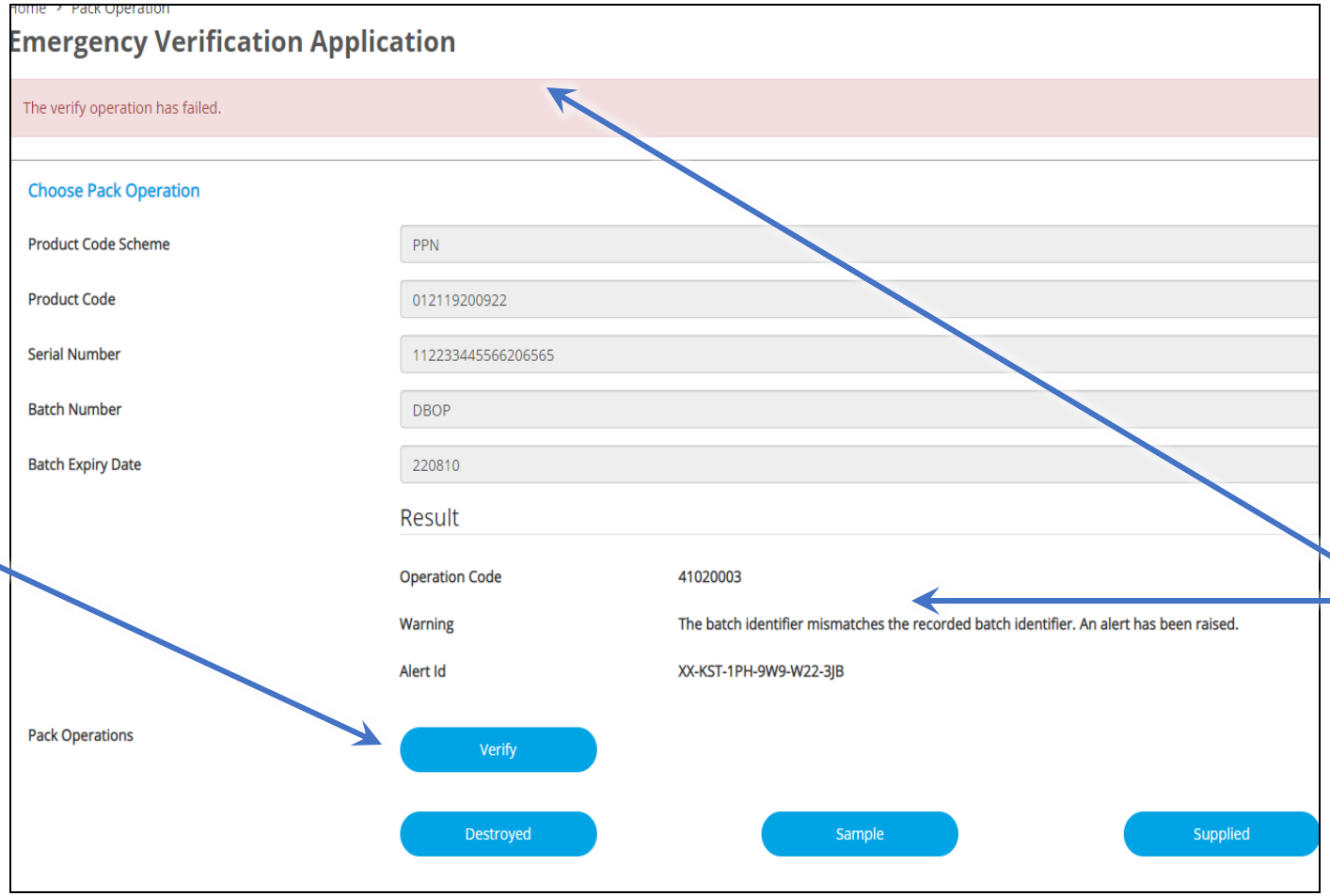
EVA - Pack Operation – Pharmacy – Verify Failure

Pack details entered via the 'HomeScreen' are displayed again on the 'Pack Details Screen'.

1. **Select the 'Verify' option to verify the pack details. Pack information is verified against the National System.**



2. **Verification results are displayed above the 'Verify' option and at the top of the screen.**

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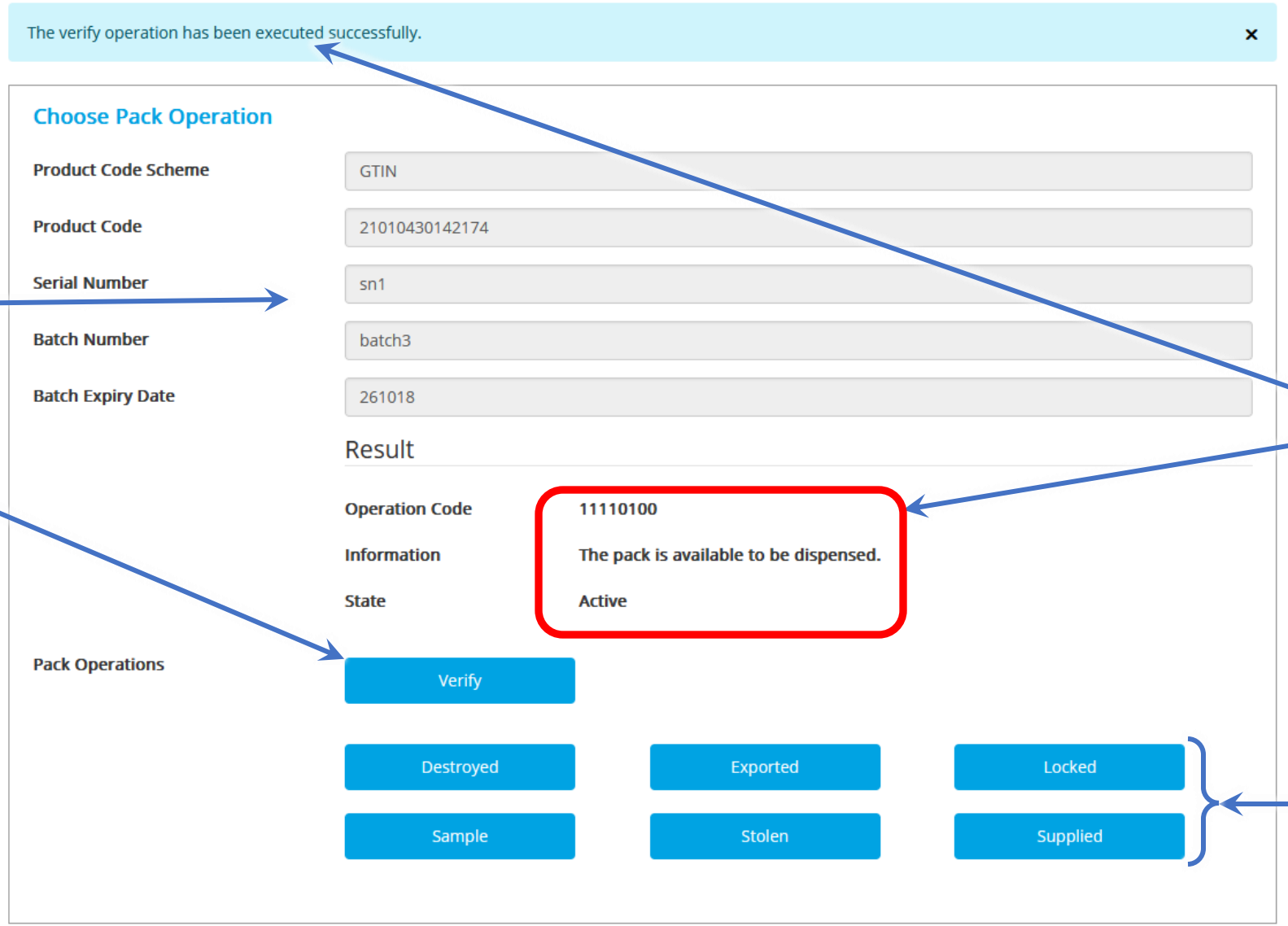
EVA - Pack Operation – Wholesaler– Verify Success

Pack details entered via the 'HomeScreen' are displayed again on the 'Pack Details Screen'.

1. Select the 'Verify' option to verify the pack details. Pack information is verified against the National System.



2. Verification results are displayed above the 'Verify' option and at the top of the screen.

3. Following successful verification, the pack may be marked as 'Destroyed', 'Exported', 'Locked', 'Sample', 'Stolen' or 'Supplied' via option buttons.

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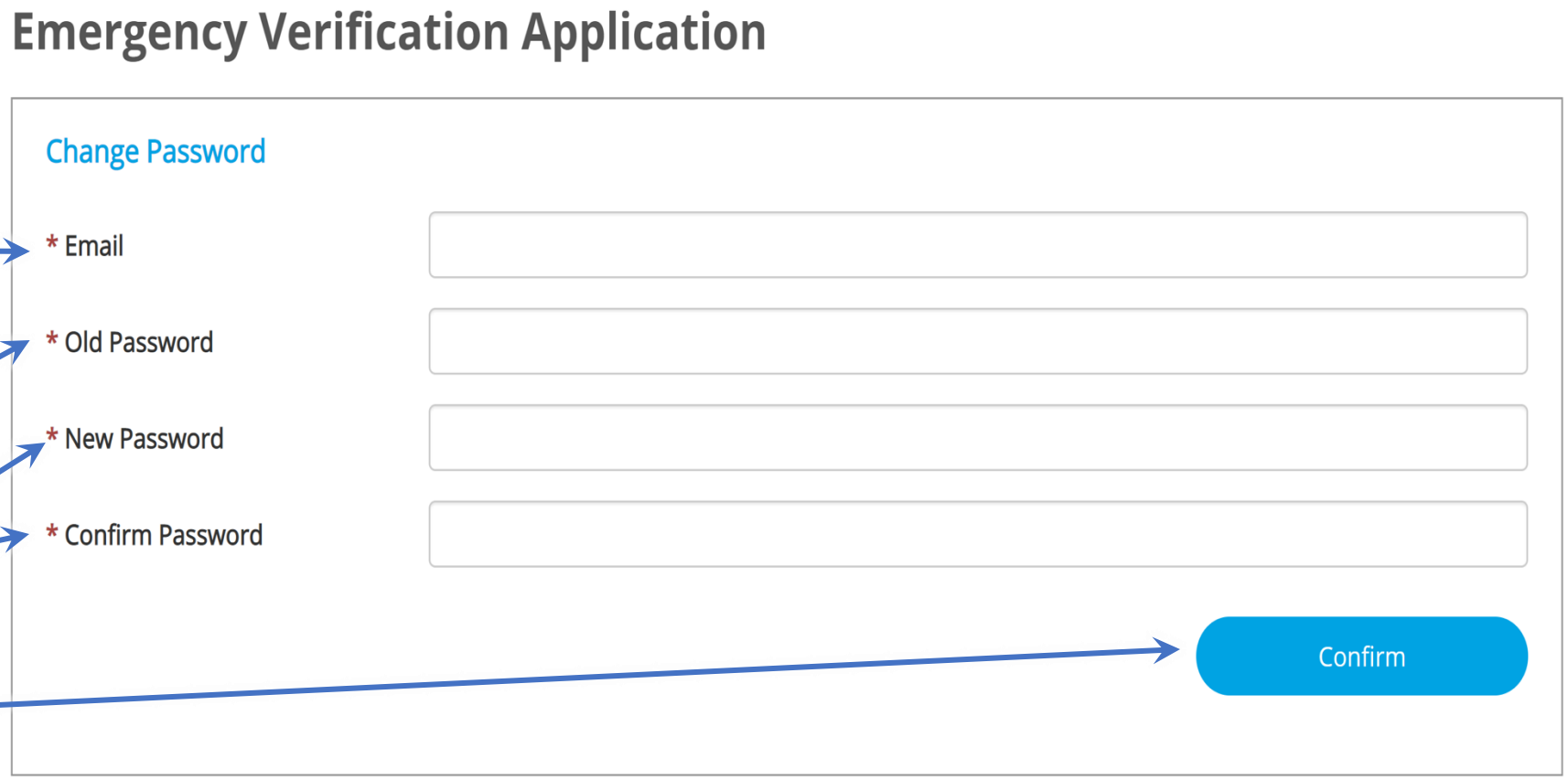
EVA - Change Password

The 'Change Password' screen can be used to change the password of any active user registered via the Administration Portal.

1. **Enter the email address associated with the user account that requires a new password.**
2. **Enter the password that is to be changed.**
3. **Enter and confirm the new password.**
4. **Select the 'Confirm' button.**



Report List

Reports		
Report Title	**Additional Report Input Parameters***	**Description**
Contracted Wholesalers Stakeholder Report	Product Details (code and scheme)	This report lists the contracted wholesalers for a given product.
End-user Batch Disclosure Report	Product Code / Scheme Batch Id Location Id Return Simplified View	The report lists all audit points raised by the end user local organisation, or location, related to a specified product batch over its lifetime.
End-user Pack Audit Trail Report	Product Code / Scheme Serial Number Return Simplified View	Lists all audit points raised by the end user local organisation, or location, related to a specified pack over its lifetime.
End-user Pack Disclosure Report	Unique Pack Return Code (UPRC) Return Simplified View	Given a Unique Pack Return Code the report lists all audit points raised by the end user local organisation, or location, related to a specified product pack over it
Organisation Administration Activity Report	Start Date & Time End Date & Time Client Location Id Client Id	Provides an audit trail of changes performed within the organisation.
Pack State Changes Client Report	Duration (Start and End date) Client Location Id	This report provides a count of pack state changes made during a specified time period at a specified client location.
Product Catalogue Data Client Report	Product Details (code and scheme) Start date and time	This report provides a list of all products currently stored in the product catalogue, together with details of the market authorisation holder and designated wholesalers.
Transactions Log Client Report	Duration (Start and End date and time) Client Location Id	This report provides a list of product pack related transactions initiated by a pharmacist or wholesaler for a specified location and time period.
Returned Packs Client Report	Duration (Start and End date and time) Client Location Id	This report provides a list of packs flagged as suspicious transaction for a given location and time period.

Key: Fields in RED are optional and can be left empty.
***All reports are required to have a 'Report Name'. This field is pre-populated for the user with an appropriate title. The title can be modified by the user requesting the report but this is not mandatory.**

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NMVS Release 15.0 – User Role Permissions - Pharmacy

Pharmacy Permissions

Permissions marked with * These pack permissions are the only ones possible in the EVA – Emergency Verification portal.

Client Credentials/Control: Allows the actor to view, create and delete API client credentials
Client Roles/Control: Allows the actor to create, update and delete roles for their client credentials
Equipment/Control: Allows the actor to create, update and delete client equipment within their organisation
Locations/Control: Allows the actor to create, update and delete locations within their organisation
Packs/MarkAsDestroyed*: Allows the actor to mark a pack or packs as destroyed
Packs/MarkAsSample*: Allows the actor to mark a pack or packs as sample
Packs/MarkAsSupplied*: Allows the actor to mark a pack or packs as supplied
Qualification Testing/Control: Allows the actor to view, generate qualification test books, reset the test data and submit for review
Report/ContractedWholesalersStakeholderReport: Allows the actor to create, read and delete Contracted Wholesalers Stakeholder Reports
Report/Control: Allows the actor to access the report screen in the portal
Report/EndUserBatchDisclosureReport: Allows the actor to create, read and delete End User Batch Disclosure Reports
Report/EndUserPackAuditTrailReport: Allows the actor to create, read and delete End User Pack Audit Trail Reports
Report/EndUserPackDisclosureReport: Allows the actor to create, read and delete End User Pack Disclosure Reports
Report/OrganisationAdministrationActivityReport: Allows the actor to create, read and delete Organisation Administration Activity Reports
Report/PackStateChangesClientReport: Allows the actor to create, read and delete Pack State Changes Client Reports
Report/ProductCatalogueDataClientReport: Allows the actor to create, read and delete Product Catalogue Data Client Reports
Report/ReturnedPacksClientReport: Allows the actor to create, read and delete Returned Packs Client Reports
Report/TransactionLogClientReport: Allows the actor to create, read and delete Transaction Log Client Reports
User Roles/Control: Allows the actor to create, update and delete roles within their organisation
Users/Control: Allows the actor to create, update and delete users within their organisation

REPLY SOLIDSOFT

NMVS Release 15.0 – User Role Permissions - Wholesaler

Wholesaler Permissions

Permissions marked with * These pack permissions are the only ones possible in the EVA – Emergency Verification portal.

Client Credentials/Control: Allows the actor to view, create and delete API client credentials
Client Roles/Control: Allows the actor to create, update and delete roles for their client credentials
Equipment/Control: Allows the actor to create, update and delete client equipment within their organisation
Locations/Control: Allows the actor to create, update and delete locations within their organisation
Packs/MarkAsDestroyed*: Allows the actor to mark a pack or packs as destroyed
Packs/MarkAsExported*: Allows the actor to mark a pack or packs as exported
Packs/MarkAsLocked*: Allows the actor to mark a pack or packs as locked
Packs/MarkAsSample*: Allows the actor to mark a pack or packs as sample
Packs/MarkAsStolen*: Allows the actor to mark a pack or packs as stolen
Packs/MarkAsSupplied*: Allows the actor to mark a pack or packs as supplied
Qualification Testing/Control: Allows the actor to view, generate qualification test books, reset the test data and submit for review
Report/ContractedWholesalersStakeholderReport: Allows the actor to create, read and delete Contracted Wholesalers Stakeholder Reports
Report/Control: Allows the actor to access the report screen in the portal
Report/EndUserBatchDisclosureReport: Allows the actor to create, read and delete End User Batch Disclosure Reports
Report/EndUserPackAuditTrailReport: Allows the actor to create, read and delete End User Pack Audit Trail Reports
Report/EndUserPackDisclosureReport: Allows the actor to create, read and delete End User Pack Disclosure Reports
Report/OrganisationAdministrationActivityReport: Allows the actor to create, read and delete Organisation Administration Activity Reports
Report/PackStateChangesClientReport: Allows the actor to create, read and delete Pack State Changes Client Reports
Report/ProductCatalogueDataClientReport: Allows the actor to create, read and delete Product Catalogue Data Client Reports
Report/ReturnedPacksClientReport: Allows the actor to create, read and delete Returned Packs Client Reports
Report/TransactionLogClientReport: Allows the actor to create, read and delete Transaction Log Client Reports
User Roles/Control: Allows the actor to create, update and delete roles within their organisation
Users/Control: Allows the actor to create, update and delete users within their organisation

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NMVS Release 15.0 – Client Role Permissions - Pharmacy

Pharmacy client role permissions

Category	Permission	Description
Packs	MarkAsActive	Allows the actor to mark a pack or packs as active (reactivate)
Packs	MarkAsDestroyed	Allows the actor to mark a pack or packs as destroyed
Packs	MarkAsSample	Allows the actor to mark a pack or packs as sample
Packs	MarkAsSupplied	Allows the actor to mark a pack or packs as supplied
Packs	ProductDataDownload	Allows the actor to retrieve product data from the product catalogue
Packs	SystemStatus	Allows the actor to retrieve the current system status
Packs	Verify	Allows the actor to verify packs
Report	ContractedWholesalersStakeholderReport	Allows the actor to create, read and delete Contracted Wholesalers Stakeholder Reports
Report	EndUserBatchDisclosureReport	Allows the actor to create, read and delete End User Batch Disclosure Reports
Report	EndUserPackAuditTrailReport	Allows the actor to create, read and delete End User Pack Audit Trail Reports
Report	EndUserPackDisclosureReport	Allows the actor to create, read and delete End User Pack Disclosure Reports
Report	OrganisationAdministrationActivityReport	Allows the actor to create, read and delete Organisation Administration Activity Reports
Report	PackStateChangesClientReport	Allows the actor to create, read and delete Pack State Changes Client Reports
Report	ProductCatalogueDataClientReport	Allows the actor to create, read and delete Product Catalogue Data Client Reports
Report	ReturnedPacksClientReport	Allows the actor to create, read and delete Returned Packs Client Reports
Report	TransactionLogClientReport	Allows the actor to create, read and delete Transaction Log Client Reports
Secrets	Control	Allows the actor to create, regenerate, swap, and delete secrets within their organisation

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NMVS Release 15.0 – Client Role Permissions - Wholesaler

Wholesaler client role permissions

Category	Permission	Description
Packs	MarkAsActive	Allows the actor to mark a pack or packs as active (reactivate)
Packs	MarkAsDestroyed	Allows the actor to mark a pack or packs as destroyed
Packs	MarkAsExported	Allows the actor to mark a pack or packs as exported
Packs	MarkAsFreeSample	Allows the actor to mark a pack or packs as free sample
Packs	MarkAsLocked	Allows the actor to mark a pack or packs as locked
Packs	MarkAsSample	Allows the actor to mark a pack or packs as sample
Packs	MarkAsStolen	Allows the actor to mark a pack or packs as stolen
Packs	MarkAsSupplied	Allows the actor to mark a pack or packs as supplied
Packs	ProductDataDownload	Allows the actor to retrieve product data from the product catalogue
Packs	SystemStatus	Allows the actor to retrieve the current system status
Packs	Verify	Allows the actor to verify packs
Report	ContractedWholesalersStakeholderReport	Allows the actor to create, read and delete Contracted Wholesalers Stakeholder Reports
Report	EndUserBatchDisclosureReport	Allows the actor to create, read and delete End User Batch Disclosure Reports
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Report	TransactionLogClientReport	Allows the actor to create, read and delete Transaction Log Client Reports
Secrets	Control	Allows the actor to create, regenerate, swap, and delete secrets within their organisation

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Complete Revision History

Version	Date	Description	Author
1.2	03-Jun-20	"NMVS Portal User Guide for Local Organisations - Release 6.2" version 1.2 was approved for Release 6.2	Prashant Hatle
1.3	17-Aug-20	Revised for Release 7.1	Alice Firth
2.0	11-Nov-20	Version 2.0 approved (Release 7.1)	Alice Firth
2.1	25-Feb-21	Revised for Release 8.0	Alice Firth
2.2	14-May-21	Updated following Quality Review	Danish Pal
2.3	16-Jun-21	Minor formatting changes applied. Document changes since the last release 7.1 guide document are represented in colour by either: amber text in slide content, amber text in slide title descriptions and yellow borders on screen images indicating updated or new screens.	Trupti Davé
3.0	18-Jun-21	Version 3.0 approved (Release 8/8.0.1)	Alice Firth
3.1	05-Jul-21	Revision for NMVS Release 9.0 Yellow background – indicates new page Yellow highlight/border – indicates addendum to existing page or new image/text. • Removed edited text highlighted for v3.0 of document. • Slide edited 35 • Slide created 46, 47 • Changed reference from "NBS" to "NMVS" on slides 33, 49, 50, 51, 52, and 64	Nicholas Houghton
4.0	12-Nov-21	Version 4.0 approved (Release 9.0)	Nicholas Houghton
4.1	17-Jan-2022	Revision for NMVS Release 10.0 • Removed edited text highlighted for v4.0 of document. • Slides edited 18, 19, 20, 21, 22, 23, 28, 64	Nicholas Houghton
5.0	05-Apr-2022	• Approved to v5.0	Nicholas Houghton

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Complete Revision History

Version	Date	Description	Author
a) 5.1	09-Jun-22	Revision for NMVS Release 11.0 • Removed edited text highlighted for v5.0 of document. • Slides edited 10, 18, 19, 23, 27, 28, 64 • Slide created 29	Tak Li
6.0	16-Aug-22	Approved to v6.0	Tak Li
6.2	17-Mar-23	Revision for NMVS Release 12.0. Added CAPA 938 note to Login screen. Added Logout and Session Timeout screens.	David Joyce
6.3	03-Apr-23	Addressed FC comments	David Joyce
6.4	20-Apr-23	Added major release number to the revision history Description of document versions v4.1, 5.1 and 6.2 to address comments from Anna Juhlin (following customer representatives review)	Fabian Cantu
7.0	20-Apr-23	Approved to version 7.0 (NMVS Release 12.0)	David Joyce
7.1	08-Aug-23	Revision for NMVS Release 13.0 (yellow highlighted text and background indicates changes) • Removed edited text highlighted for v7.x of document. • Slides edited 9, 17, 18, 19, 20, 31, 32, 33, 50, 51, 52, 53, 54 • Slides created 12, 28, 43, 44, 45, 46, 47, 48, 59, 60, 61, 62, 63, 64, 65, 66, 67, 83	David Joyce
7.2	01-Sep-23	• Updated slides 50-54 to state that reports are also available through the Portal • Clarified Organisation and client roles on slide 56 • Updated slide 65 to include IQE for IT Supplier Qualification	David Joyce
8.0	01-Sep-2023	Approved to v8.0	David Joyce
8.1	15-Mar-24	• Slides edited: 30, 31, 33, 34, 35, 36, 37, 38, 41, 42, 43, 51, 52, 53, 57, 58, 59, 88, 89 • Slides created: 32, 40, 60, 61, 67, 68, 69, 70, 71, 72, 73	David Joyce
9.0	02-Apr-2024	Approved to v9.0	David Joyce
9.2	22-Oct-2024	Revision for NMVS Release 15.0 Slides added: 47, 48, 49, 50, 51, 52, 66, 67, 68, 69, 70, 71, 72, 73, 85-95 Slides edited: 7, 9, 17, 19, 26, 30, 31, 32, 33, 39, 40, 41, 42, 43, 54, 56, 60, 61, 62, 63, 64, 81, 101, 105, 113, 114, 115, 116, 117	David Joyce
10.0	23-Oct-2024	Approved to v10.0	David Joyce

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Version	Date	Client / Department / Function	Reviewed By
2.1	01-Mar-21	Formal Review	Roberto Bacciocchi
2.1	02-Mar-21	Content Review	Ian Gilroy
2.1	13-May-21	Quality Review	Indu Marimuthu Nanditha Kartik
2.2	20-May-21	Quality Review	Nanditha Kartik Matt Rymell
2.3	17-Jun-21	Quality Review	Nanditha Kartik
3.1	27-Oct-2021	Content Review	Danish Pal
3.1	28-Oct-2021	Quality Review	Nanditha Kartik
4.1	20-Jan-2022	Quality Review	Nanditha Kartik
5.1	04-Jul-2022	Quality Review	Nanditha Kartik
6.2	27-Mar-2023	Quality Review	Fabian Cantu
6.3	13-Apr-2023	Customer Representatives Review	Customer Representatives
7.1	22-Aug-2023	Quality Review	Matt Stellmacher
7.2	01-Aug-2023	Quality Review	Matt Stellmacher
8.1	18-Mar-2024	Quality Review	Nanditha Kartik
9.1	03-Oct-2024	Quality Review	Matt Stellmacher
9.2	22-Oct-2024	Quality Review	Matt Stellmacher

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