



**Integrated Control Technology**

## **Protege GX**

Release Notes | Version 4.3.352.10



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Last Published: 05-Sep-25 11:08 AM

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# Introduction

This document provides information on the new features, enhancements and resolved issues released with:

- Protege GX software version 4.3.352.10





The release history for previous Protege GX versions is also included.

## Important Note on Software / Firmware Compatibility

The release of Protege GX version 4 introduced cross controller operations, which enables controllers to operate as a unified system and share hardware resources. This makes all physically connected items on a controller accessible and usable by various functions and records within Protege GX. Version 4 also introduced many new features that were unavailable in previous versions.

In order to use these features, you must also be using a Protege GX DIN Rail Controller or Protege GX PCB Integrated System Controller (PRT-GX-PCB) running firmware version 2.08.583 or above.

If you are running an earlier version of the firmware, or if you are using an older PCB Controller (PRT-CTRL-GX), these features are not available. If you are running firmware version 2.08.583 or later with an earlier version of the software, it will result in unexpected operation.

	Firmware 2.08.499 and below	Firmware 2.08.583 and above
<b>Below software version 4.0.128</b>	 Cross controller operations not available	 <b>Software/Firmware versions incompatible. Controller will not accept programming downloads</b>
<b>Software version 4.0.128 and above</b>	 Controller download will not be allowed if any cross controller links are made in programming	 Cross controller operations available

For more information about cross controller operations and how this functionality affects the operation of Protege GX, refer to AN-180: Cross Controller Operations. We strongly advise that you read this document thoroughly before proceeding with the upgrade.

## Supported Operating Systems

Operating System	Edition	Architecture
Microsoft Windows Server 2022	Standard, Datacenter	64-bit
Microsoft Windows Server 2019	Standard, Datacenter	64-bit
Microsoft Windows Server 2016	Standard, Datacenter	64-bit
Microsoft Windows 11	Pro, Business, Enterprise	64-bit
Microsoft Windows 10	Professional, Enterprise	32 / 64-bit

## SQL Server Compatible Versions

The Protege GX application uses a non-proprietary open SQL database engine to store and share information. The software is compatible with SQL 2016, 2017, 2019 and 2022 in Standard, Express, and Enterprise editions.

The Express edition is a scaled down, free edition of SQL Server that includes the core database engine and functionality. The Express version of SQL supports a database size of up to 10 GB.

To obtain either SQL or SQL Express, download the appropriate installer from the Microsoft website. It is also recommended to download SQL Server Management Studio from Microsoft in order to configure SQL. Download the latest general availability (GA) version of SSMS from the Microsoft website.

## Firmware Versions

The Protege system is a high-performance integrated system. To ensure your installations are running at the optimal performance we recommend that all installed modules use the latest firmware releases.

For a complete list of current firmware versions, please refer to the ICT website ([www.ict.co/Firmware](http://www.ict.co/Firmware)).

Firmware updates are available online from the ICT website or through your distribution channel. If you are having difficulty downloading any firmware or finding the appropriate version, please contact the ICT Technical Support team.

## Upgrading Protege GX to the Latest Build

To upgrade to the latest version, you may be required to uninstall the previous version first. The installer will inform you if this is the case.

1. Prior to performing an upgrade, you should always back up your database:
  - Open the Protege GX application and log in using an operator account with administrative permissions, or at minimum the ability to perform system functions.
  - Select **Global | Global settings** from the main menu.
  - Under the **Main database backup** options, select **Backup now**.Wait for the backup to be completed before proceeding.
2. Run the installation for the server:
  - Run the supplied setup file (setup.exe) and follow the onscreen instructions.
  - When the installer is launched it looks for the previous version of Protege GX installed on the local workstation and upgrades it to the latest build.
  - Progress is displayed as the database is upgraded and the application installed.
3. Run the installer again on each client machine to update the client interface.

Detailed installation instructions can be found in the Protege GX Installation Manual.

# Protege GX Software Version 4.3.352.10

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## Feature Enhancements (4.3.352.10)

The following enhancements have been made to existing features in this release.

### Power Supply Support

This version of Protege GX supports two new power supply modules:

- PRT-PSU-DIN-5A: Protege DIN Rail 5A Intelligent Power Supply
- PRT-PSU-DIN-10A: Protege DIN Rail 10A Intelligent Power Supply

To support the new power supplies, you must also upgrade the controller firmware to version 2.08.1535 or higher.

### Code Signing

Protege GX software installers are now digitally signed.

## Issues Resolved (4.3.352.10)

The following issues were resolved with this release.

- Improved the resilience of the Protege GX Event Service. The updated service now robustly handles:
  - Unreliable or unstable data connections
  - Database latency, locking and transient failures
  - Network latency and connectivity issues
  - Large numbers of events received from controllers immediately after an outage

This enhancement ensures that all events are reliably captured and persisted, even under adverse conditions. This prevents data loss and improves overall system reliability.

- Resolved an issue where controllers could drop offline from the event service over time.

Some processes that mitigated this issue are no longer needed and have been disabled. In most installations these mitigations will be automatically turned off when you upgrade the software. However, if you have added related configuration to the Protege GX config files, we recommend that you remove it when you upgrade.

Remove the following lines from the config files:

- **GXSV.exe.config:**

```
<add key="gx:EnableUnknownStatusMitigation" value="true" />
```

- **GXEvtSvr.exe.config:**

```
<add key="EnableControllerConnectionWatchdog" value="1" />
```

Restart the Protege GX services after editing the config files.

- Resolved an issue where the License.dll file could be incorrectly quarantined or deleted by antivirus programs.

# Previous Software Release History

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This section includes information on the changes and enhancements made in earlier versions.

## Protege GX Software Version 4.3.352.7

### Feature Enhancements (4.3.352.7)

The following enhancements have been made to existing features in this release.

#### Access Events

- Added new events that are used when a user attempts to gain access at a door or elevator car, but does not have any access levels which allow access to that record. The events are:
  - User John Doe Door Not Allowed Office Door Using any Access Level
  - User John Doe Access Level Schedule Not Valid Office Door Using any Access Level
  - User John Doe Denied by Elevator Group at South Elevator Using any Access Level

This feature requires controller firmware version 2.08.1373. You may need to edit existing event filters to ensure that these events are displayed in reports and status pages.

#### Performance Improvements

- The door and access level lists are now paginated, improving the loading times for pages when there are large numbers of records.
- Added a search bar to the door and access level pages for quickly filtering the record list.
- Improved the loading times for the doors and access levels pages and system navigator.

#### Language Support

- The Protege GX thick client now supports Traditional Chinese.

### Issues Resolved (4.3.352.7)

The following issues were resolved with this release.

- Resolved an issue where the single record download service would trigger a download when a user record was saved without any changes, or with changes only to fields that are not downloaded to the controller. Now user downloads are only triggered when there are changes to fields which need to be downloaded to the controller.
- Resolved an issue where running an event report for a period which had no events would return an error. Now it returns an empty event report.
- Resolved an issue where the **Detach** (breakout) button did not have a tooltip.
- Resolved an issue where the default schedule for elevator floors was displayed as *Always* instead of *Never*.
- Resolved an issue where the **Access direction** dropdown in **Users | Access levels | Door groups** was not populated when it was first opened.
- Resolved an issue where the incorrect Site ID was used when deleting smart readers, causing the delete event to not appear in reports for that site.
- Resolved an issue with custom reader formats where the even and odd parity settings were reversed.
- Resolved an issue where Salto door groups could not be added to access levels.
- Resolved an issue where the module addressing window would crash when there were a large number of modules connected.
- Resolved an issue where Protege GX installations using SQL Server versions older than 2016 could not download to the controller, add/edit door groups, or add/edit access levels containing door groups after upgrading to version 4.3.341.5.

- Resolved an issue where muster reports did not complete when there were a large number of access events with custom credentials in the reporting period.
- Resolved an issue where opening a user from an event could open the wrong user record if the list was paginated.
- Resolved an issue where the default inactivity periods were not being applied when a user was added from a credential event.
- Resolved an issue where status pages did not display the record names of muster reports.
- Fixed a visual issue with the pagination and quick search features in detached windows.
- Resolved an issue where the maximum value for the **Function 3 activation time** was incorrectly set to 128. It is now correctly set to 86,400.
- Resolved an issue where doors were assigned an incorrect host controller based on an unrelated output group.
- Resolved an issue where attendance reports did not deduct the early in time if the user was also late out.
- Resolved an issue where the **Forced open output** was not assigned to doors when a reader expander was added manually.
- Resolved an issue where the Door Duress trouble inputs were not created when a door was added manually.
- Resolved an issue where calendar actions were not filtered by record groups in the web client.
- Resolved an issue where logging in with Windows Authentication randomly failed approximately 25% of the time.

If your site uses Windows Authentication, when you upgrade to this version of the Protege GX software you must also upgrade the Protege GX Web Client to version 1.47.1.3.

- Resolved an issue where upgrading a system with PIN encryption enabled would cause errors in the database.
- Resolved an issue where the download service would crash when there were a large number of users to download.
- Resolved performance issues with the data service in large systems.
- Resolved download service crashes in large systems.
- Resolved an issue where changing an output group from the areas page could cause the **Bell output group** to be reassigned to the **Exit delay output group**.
- Resolved an issue where navigating from the **Function outputs** tab to another door record tab would remove the outputs assigned in the **Outputs** tab.
- Resolved an issue where the users page would show a 'Save Changes' prompt when navigating away from the first user, even if no changes had been made.
- Resolved an issue where only the first custom alarm sound would be played, even when multiple custom sounds were programmed.
- Resolved an issue where saving a programmable function would blank out the **Door to control**, and saving a second time would remove the door record.
- Resolved an issue where deleting a door record would automatically delete its associated trouble inputs, but no 'Trouble Input Deleted' events were logged.
- Resolved an issue where changing an operator with the No Access role caused a network error.
- Resolved an issue with the Finnish language version where the controller wizard did not add reader expanders if a keypad was also added.
- Resolved an issue with the Schindler integration where it was not possible to select the controller used for the integration in the SOM output programming.
- Resolved an issue where visitor notification emails failed to send, preventing visitors from signing in.
- Resolved an issue where the Salto SHIP integration periodically went offline and the Protege GX download server crashed.
- Resolved an issue where controllers would drop offline and come back online regularly.
- Resolved an issue where entry and exit events using credential types were not included in the **Users | Users | Attendance** tab.
- Resolved an issue where clicking **Refresh** on the module addressing page would cause an error or crash the client.



- Resolved errors and crashes which occurred when switching between sites on the doors page.
- Resolved an issue where, on a site with no users, the Users page displayed users from other sites when the number of records on the page was set to All.
- Improved the performance of the client user interface.
- Resolved an issue where the access level programming displayed the **Include all elevators** checkbox as blank even when it should have been enabled.
- Resolved an issue where the download service regularly crashed while the Suprema biometric integration was running.

## High Data Usage on 4G Modems

In some recent versions of Protege GX there is unexpectedly high data usage on controllers connected by 4G modems. This can be caused by the Protege GX regularly contacting all controllers to improve status reporting from the event service.

If you are experiencing high data usage on metered (low data) connections, you can turn off these regular "check-ins". Be aware that this may increase the chance of controllers dropping offline.

1. Stop the Protege GX services.
2. In the File Explorer, navigate to the installation directory: C:\Program Files (x86)\Integrated Control Technology\Protege GX
3. Open GXSV.exe.config.

Files in this directory require administrator permissions to edit. You may need to open the file as an administrator using an application like Notepad++, or make a copy in a different directory to edit and replace the original.

4. Add the following code under the `<configuration>` node, between `</configSections>` and `<microsoft.scripting>`:

```
<appSettings>
  <add key="gx:EnableUnknownStatusMitigation" value="false" />
</appSettings>
```

5. Save the file.
6. Open GXEvtSvr.exe.config.
7. Directly under the `<appSettings>` tag, add the following code:

```
<add key="EnableControllerConnectionWatchdog" value="0" />
```

8. Save the file.
9. Restart the Protege GX services.

## Protege GX Software Version 4.3.342

### Issues Resolved (4.3.342)

The following issues were resolved with this release.

- Resolved an issue where Protege GX installations using SQL Server versions older than 2016 could not download to the controller, add/edit door groups, or add/edit access levels containing door groups after upgrading to version 4.3.341.5.
- Resolved an issue where logging in with Windows Authentication randomly failed approximately 25% of the time.

If your site uses Windows Authentication, when you upgrade to this version of the Protege GX software you must also upgrade the Protege GX Web Client to version 1.47.1.3.

# Protege GX Software Version 4.3.341

## New Features (4.3.341)

The following new features have been included with this release.

### OSDP 2.2 Support

Protege GX now supports the OSDP 2.2 standard. This includes a number of changes which make setting up OSDP card readers quicker and easier.

- To program OSDP readers in Protege GX, you can now simply set the **Port 1/2 network type** of the reader expander to OSDP. When you save the record, Protege GX will automatically create the smart reader records that are required for the entry and exit readers, ready to be programmed with the reader address and door configuration.

When programmed using the method above, ICT 485 smart reader licenses are no longer required to connect OSDP readers.

- Protege modules now support OSDP installation mode, allowing them to establish a secure channel session with readers using a randomly generated encryption key. After putting the card reader into installation mode, simply right click on the reader expander record and select **Activate OSDP install mode**. This prompts the reader expander to initiate an OSDP session with the card reader, in which it will establish the reader's Baud rate and negotiate an encryption key for a secure session.
- Alternatively, it is possible to manage custom encryption keys manually if preferred. One encryption key can be programmed per reader, and the key will be diversified by the controller to establish a secure session with the card reader.

For complete prerequisites and programming instructions, see Application Note 254: Configuring OSDP Readers in Protege. If you have previously programmed OSDP readers using commands, it is recommended that you remove these commands and replace them with the new programming available in the UI.

### Custom Alarm Sounds

Protege GX now includes the ability to program unique custom sounds for operator alarms in the system, enabling you to differentiate between the types of alarms which need to be monitored on site. Use custom alarm sounds to enable personnel to quickly recognize what is happening and respond appropriately.

To program this feature:

- In **Global | Global settings | Sound**, add any number of wave files in the **Sounds** field and give them descriptive names. The original **Wave file path** option will provide a fallback for any alarms which do not have a custom alarm sound.
- Select alarms in the **Events | Alarms** programming and set the new **Alarm sound** option to the desired custom sound. Any sounds which are assigned to an alarm record will be automatically synchronized with client installations.

## Feature Enhancements (4.3.341)

The following enhancements have been made to existing features in this release.

### Users Page Improvements

- The user list is now paginated so it can be loaded faster when there are large numbers of users. By default 200 records are displayed per page, but this can be changed using the dropdown at the bottom of the window.
- The search field at the top of the users page enables you to quickly filter user records by their display name.
- It is now possible to sort user records by first name and last name, making it easier to find users in the list. To enable this feature, navigate to **Global | Sites | Display** and enable **Display first name and last name columns in users**. On the users page, you can click the column headers to sort the records as required.

- There are new options for automatically formatting the display names of users based on the entered first and last names. The **User display name auto format** field in **Global | Global settings | General** now includes:
  - Reverse short format (Smith, J)
  - Reverse long format (Smith, John)

## Licensing

- Protege GX operators can now activate and update their license from client workstations, not only from the server.

## Alarms

- It is now possible to include a camera popup alongside an alarm event, allowing operators to see what is happening on site immediately. When you enable **Allow camera popup** in the alarms programming, whenever there is an alarm on a record such as a door or input the associated camera will pop up.

## Function Outputs

- It is now possible to activate function outputs for up to 86,400 seconds (24 hours).

## Language Support

- Protege GX is now available in Ukrainian.

## Issues Resolved (4.3.341)

The following issues were resolved with this release.

- Resolved an issue where the 'Read Raw Credential Data At Reader Expander' event did not allow operators to right click and add the custom credential to a user.
- Resolved an issue where it was possible to view and edit the User ID credential type from the Protege GX web client.

This fix requires SOAP version 1.6.0.10 or higher and web client version 1.47.0.66 or higher.

- Resolved an issue where muster reports did not display the correct details for a user if their last access event used a custom credential type.
- Resolved an issue where floor plans would display an error when the operator viewed sorted event window tabs.
- Added the **Exclude report header and footer** option to user and muster reports (previously available for event reports only). This resolves an issue where extra blank columns were sometimes added to exported and emailed CSV reports.
- Resolved an issue where some extended user fields could be added to card templates, but were not editable and disappeared when the template was saved.
- Resolved an issue where the **Instructions** and **Instructions 2** fields did not appear in alarm popups.
- Resolved an issue where the "All users by events" report was not being populated correctly if the report included a large number of events (c. 100,000).
- Resolved an issue where the Find tool displayed duplicate field names on some pages, making it difficult to search for the correct field. The repeated field names are now combined into a single search option (e.g. **Facility/Card number**) or distinguished using numbers (e.g. **Area 1, Area 2**, etc.) or tab names (e.g. **Disarm area for door on access (Reader 1)**).
- Resolved an issue where area groups assigned to users were not correctly removed from the database when the area group was unassigned or the user record was deleted.
- Resolved multiple issues where operators who did not have access to all sites could not perform certain actions:
  - Resolved an issue where these operators could not filter the inputs list by controller.
  - Resolved an issue where these operators could not view trouble inputs.
  - Resolved an issue where these operators could not control areas via a status page.

- Resolved an issue in the March Networks video integration where the camera stream intermittently would not open.
- Resolved an issue in the March Networks video integration where PTZ commands would not work correctly unless there was a video stream open in another window.

This fix requires Protege GX March Video Service version 1.0.0.7 or higher.

- Resolved an issue where custom field displayed 'Invalid String ID' instead of the field name in the user history page.
- Resolved an issue where the **User last active** field was not included in emailed or exported reports.
- Resolved an issue where the Find tool did not correctly find user records without a specific access level assigned.
- Resolved an issue where some third-party DLL files in the Protege GX installation were not compiled with ASLR and DEP flags. These files have been removed from new installations, but will not be deleted when the software is upgraded from a previous installation.

If you are setting up the Suprema or Geutebrück integrations for the first time, you will need to add these files to the main Protege GX directory. For more information, see the relevant application note.

- Resolved an issue where the Protege GX Download Service was vulnerable to dumb fuzzing on ports 51212-51213. This was caused by the Suprema DLLs that have been removed from the default installation as mentioned above. To resolve this issue, uninstall Protege GX and install the new version (do not upgrade the software).
- Resolved an issue where the download and event server diagnostic windows on the controllers page would display the bottom of the list first and force users to scroll up to see the latest events. This was caused by a change in Windows Update KB5018410.
- Resolved an issue where the client could crash when switching between two sites in **Global | Sites** if the first site had security enhancements enabled.
- Resolved an issue where the record group assigned to a door would not restrict which operators received any camera popups.
- Resolved an issue where schedule periods would not save the correct times when an operator in a different time zone from the server entered times by typing them in manually.
- The Protege GX Download Server will now restart once every 24 hours, mitigating issues where it can silently fail. The server will only restart when there is no controller download pending.

Secondary download servers will not be restarted by this process. If required, a Windows scheduled task can be used to restart any secondary servers periodically.

- Resolved an issue where an exported event report for Last month did not contain all of the events for the month.
- Resolved an issue where the second language name of the Red R2 Output was not populated when a reader expander was created.
- Improved loading times for a number of pages when there are large numbers of records.
- Resolved an issue where user PINs could be viewed in user reports even when site security enhancements were enabled.
- Resolved an issue where trouble inputs without a host controller were not displayed using the <Unassigned> filter.
- Resolved an issue where controllers would drop offline, requiring an event service restart.
- Resolved a number of significant cybersecurity issues.

## Protege GX Software Version 4.3.327

### New Features (4.3.327)

The following new features have been included with this release.

## Tenancy Portal Sync

The Protege Tenancy Portal is designed as the central point for synchronizing contacts for an entry station directory. With this version of Protege GX you can synchronize your Protege GX user records with the tenancy portal and subsequently import them to a Protege entry station directory, allowing building visitors to call or video call Protege GX users directly from the entry station.

- You can enable this feature in Protege GX by checking **Enable portal synchronization** in **Global | Sites | Portal** and entering your login credentials for the tenancy portal.
- Each synchronized site will create a **place** and a **phonebook** in the tenancy portal.
- To automatically sync a user to the tenancy portal, enter their email address and/or phone number, along with a tenancy name.
- A mobile app account and SIP account will be added for each user (if they do not have one already), and the user will be assigned to a tenancy and added to the phonebook.
- The phonebook can be manually imported or automatically synchronized with the Protege entry station directory, updated every 60 minutes.
- Visitors can now video call Protege Mobile App users directly from the entry station, or voice call using the phone number.
- Users can also use their PIN to unlock doors and activate devices at the entry station.

This feature requires a tenancy portal login and the separate sync service, available from the ICT website. For more information, see the Protege Tenancy Portal User Guide.

## Feature Enhancements (4.3.327)

The following enhancements have been made to existing features in this release.

### Door Groups

- Added the ability to set expiry start and end dates for door groups. This can be used to disable or enable a group of doors across all user access levels at a defined date and time - for example, allowing you to pre-program a section of the building that is under construction, and activate the door group on the day it is opened to staff.

## Issues Resolved (4.3.327)

The following issues were resolved with this release.

- Improved cybersecurity measures where a number of IGXService methods did not have access controls.
- Improved cybersecurity measures where a certain method was vulnerable to SQL injection.
- Upgraded the log4net application to version 2.0.14.
- Resolved an issue where the alarm window would disappear after receiving more than 200 events when alarm routing was in use.
- Resolved an issue where the time for a scheduled report email or file export could be incorrectly changed when the report was edited by an operator in a different time zone from the server.
- Resolved an issue with the Salto SHIP integration where the door state was not displayed in Protege GX.
- Resolved an issue where data for dropdown custom fields was not included in automatically exported or emailed reports.
- Resolved an issue in the SOAP service where it was not possible to find users by credential.

This fix requires SOAP service version 1.6.0.9.

- Resolved an issue where a record group could not be assigned to the first programmed door group until it had been saved.
- Resolved an issue where the 'DVR Generic' and 'Camera Generic' events were not functioning correctly.
- Resolved an issue where the Find tool could not filter certain records (including doors) by record group.

- Resolved an issue where the credential types which could be viewed and edited in a user record were not restricted by the operator's record groups.
- Resolved an issue where the History tab would display "Invalid String ID" for some fields.
- Resolved an issue where extra blank columns were sometimes added to exported and emailed CSV reports. This was caused by the additional header and footer rows in the CSV report (e.g. report name, date of export) and can be prevented by enabling the new **Exclude report header and footer** option in the report programming.

## Protege GX Software Version 4.3.322

### Feature Enhancements (4.3.322)

The following enhancements have been made to existing features in this release.

#### OS Support

- Protege GX is now supported on the Windows 11 operating system (Pro, Business and Enterprise editions).

#### Limiting Cards/Credentials per User

- Added the ability to restrict the number of cards which can be assigned to each user to one. To apply this limitation to the whole site, enable the **Display only one card slot** option in **Global | Sites | Display**.
- Added the ability to limit the number of instances of a credential type which can be assigned to each user. When programming a credential type in **Sites | Credential types | General**, you can set the **Credential limit per user** to a number from 1-10, or leave it as unlimited.

It is not possible to enable card or credential limits if there are any users with more than the desired limit currently assigned. Delete any excess credentials from users before enabling these settings.

## Issues Resolved (4.3.322)

The following issues were resolved with this release.

- Resolved an issue where some text in the second language was displayed with excess quotation marks.
- Resolved an issue where the data sync service sometimes created duplicate user records when two instances of the service were running at the same time.

This fix requires ICT Data Sync Service version 2.0.10.18 or higher.

- Resolved an issue in the Chinese language build where column headers were missing from event and muster reports.
- Resolved an issue where adding and immediately deleting a user record while a full download was in progress could cause the single record download service to fail and not recover.

This fix requires single record download service version 1.0.0.4 or higher.

- Resolved an issue where the single record download service could not successfully install a self-signed certificate on the controller in environments with operating systems prior to Windows 10.

This fix requires single record download service version 1.0.0.4 or higher.

- Resolved an issue where the download service failed to start.
- Reinstated the **Download retry delay** setting in **Sites | Controllers | Configuration**.
- Resolved an issue where the download service was continually crashing when attempting to download a large user database including Suprema biometric credentials.
- Resolved an issue where the SOAP service was not respecting the nStart and nNumberOfRows parameters when getting user reports.

This fix requires SOAP service version 1.6.0.7 or higher.

- Resolved an issue where some UI translations in second language versions were incorrectly reverted to English.
- Resolved an issue where updating the **Password** field in **Sites | Controllers** would result in multiple unnecessary save prompts.
- Resolved an issue where attempting to delete a credential type from a new, unsaved user record would result in the first credential type on the list being deleted, regardless of which one was selected.

## Protege GX Software Version 4.3.319

### Feature Enhancements (4.3.319)

The following enhancements have been made to existing features in this release.

#### Programming Efficiency

- When a site has only one controller, the **Controller** field in the toolbar is automatically set to this controller. This improves efficiency when programming records such as programmable functions, services and expander modules.

#### Failed Login Attempt Events

- Protege GX can now generate events whenever there is a failed login attempt on the thick client. This enables you to audit and report on failed attempts to access the software. To enable this feature, check the **Save failed operator login events to event database** option in **Global | Global settings**.

The new events are:

- **Operator login failed attempt: Unknown operator**

- Operator login failed attempt: Incorrect password: <OPERATOR NAME>
- Operator login failed attempt: No role access: <OPERATOR NAME>

### Credential Types

- Added the ability to set an inactivity period for each credential type assigned to a user. If the credential is not used within this period, it will be disabled.  
Inactivity periods can be set individually for each credential assigned in **Users | Users | General**, or you can set a default inactivity period for the credential type in **Sites | Credential Types**.

For more information, see Application Note 276: Credential Types in Protege GX.

### Login Page

- The **Server** field on the Protege GX login page now includes a dropdown menu, allowing you to select previously used server addresses. The **Clear** button allows you to delete the currently selected address from the dropdown.

### Photo ID

- It is now possible to display a user's credential types on a Photo ID card template. For example, this allows you to include custom card numbers, license plates and User IDs on user cards.

For more information, see Application Note 149: Creating a Photo ID Template in Protege GX.

### Language Support

- Added Danish as a supported language.
- Added Chinese (Simplified) as a supported language.
- Updated Russian translations.

## Issues Resolved (4.3.319)

The following issues were resolved with this release.

- Resolved an issue where the **Service Port** field was not visible in the second language.
- Resolved an issue where the 3 badge latch door 8 hours and User Key Watcher ID columns could be duplicated in user reports, and would be impossible to delete.
- Resolved an issue where Protege GX would stop receiving live events from controllers, requiring a restart of the event service.
- Resolved an issue where holiday date formats would be changed unexpectedly, preventing the software from correctly converting the date format.
- Fixed an issue where some user cards which were about to expire would not be included in the Cards about to Expire user report.
- Resolved an issue where emailed reports were not being sent when a custom TLS certificate was in use.
- Resolved an issue where a controller's username and password could be displayed in event reports.
- Resolved an issue where recurring calendar actions would end before the set date.
- Resolved an issue where floors could not be filtered by record group when being added to an elevator car record.
- Resolved an issue where for some Windows regions the time was incorrectly displayed in 12hr format instead of 24hr format.
- Resolved an issue where operators with roles that could not access the <not set> record group were not able to set User IDs, making it impossible to add new users.
- Resolved an issue where enabling the **Autopopulate User ID Credential Value** option could cause controllers to drop offline.
- Resolved an issue where emailed reports were not translated correctly.



- Resolved an issue where deleted record groups were not removed from some types of records, which caused lists to load slowly for operators who only had access to specific record groups.
- Renamed the **Last Month** field in the report email tab to **Previous Calendar Month** to more accurately describe the effect of the setting.
- Resolved an issue where a SOAP GetRecord call would return an empty PIN record for users when the site had **Require Dual Credential for Keypad Access** and **Allow PIN Duplication** enabled.
- Removed the **Email** and **File Export** tabs from the user search page.
- Resolved an issue where user reports for All Users By Access Level would not be automatically emailed.
- Improved the performance of status page loading on large sites.
- Resolved an issue where changing a schedule on a disarming area group would also change the schedule on the arming area group, and vice versa.
- Resolved an issue where increasing the size of the user image column on a status page would not resize the photo ID images.
- Resolved an issue where muster reports which included the record group column would not be automatically exported or emailed if at least one user did not have a record group set.
- Resolved an issue where the **Solid**, **Gradient** and **Null** tabs did not appear above the color picker in the card template editor and other locations. This could prevent operators from selecting the background, border and/or foreground colors for objects.
- Resolved an issue where adding more than one custom field column to an event report caused file exports and emails to fail.
- Fixed a regression where alarms were sent to all workstations instead of following the programmed alarm routing rules.
- Amended and updated textual display in the user interface, including fixes to spelling, grammar and capitalization.
- Resolved an issue where legacy credentials were stored in plain text in a config file.
- Resolved an issue where the server could become unlicensed when the computer restarted.
- Resolved an issue where event reports could not be created in the web client.
- Resolved an issue where the required Visual C++ 2017 Redistributable prerequisite was not installed.
- Resolved an issue where clicking the **Load default report layout** button for a user report could cause the client to crash.
- Resolved an issue where operators with the Guard or End user role presets could not view elevator floors on status pages and floor plans.
- Resolved an issue where attendance reports would not run using the Summary report layout.
- Resolved an issue where the All users not in events report could return users who were included in events.
- Resolved an issue where the **Unlock latched** and **Extended lock time** options were not displayed correctly in the calendar action programming.
- Resolved an issue where some programming tabs did not appear in second language builds.
- Resolved an issue where navigating away while a report was loading could cause a memory leak, resulting in the client crashing.
- Resolved an issue where the All users not in events report did not return correct data when exported.
- Resolved an issue where some password entry fields were not masked.
- Resolved an issue where custom field data was not loaded correctly in event, user, muster or attendance reports.
- Resolved an issue where the search functionality in the online help was not functioning.
- Resolved an issue where the **Load events** button on the **Events** tab was returning an error.

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