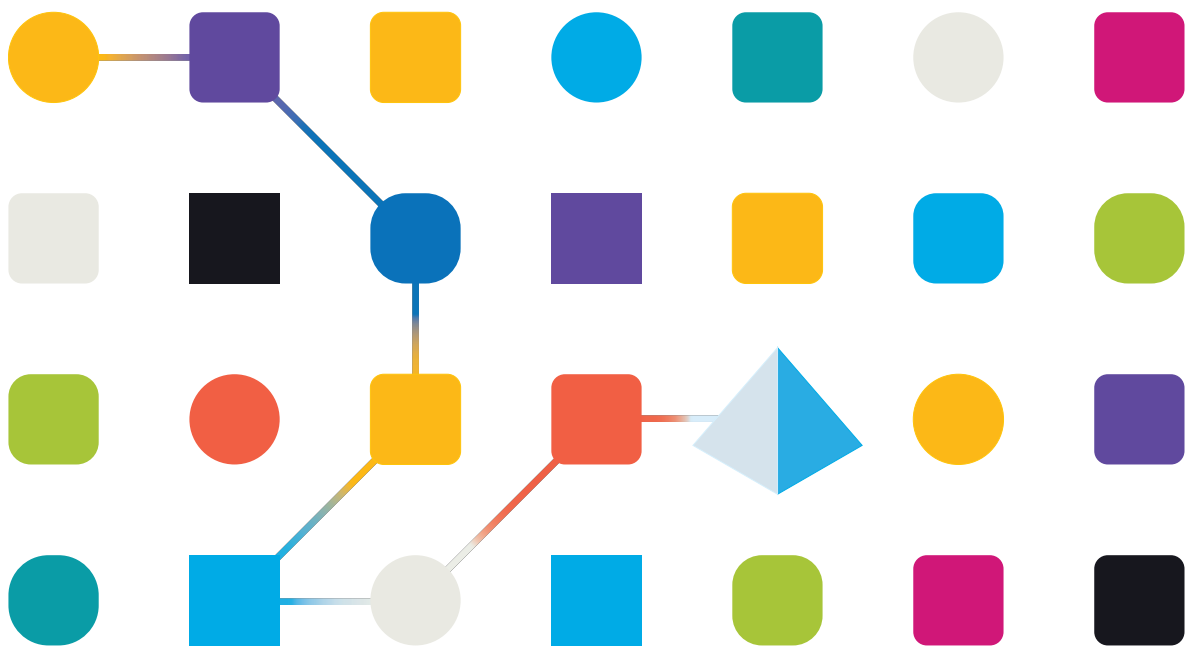




# Hub 4.2

## Release Notes

Document Revision: 1.2



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## Release Notes

### Hub 4.2 – April 2021

This release note is for the 4.2 release of Blue Prism Hub delivered in an on-premise configuration.

#### Enhancements

The following new features and enhancements are introduced in this version of Hub.

Area	Description of Change
Application	<p>The Hub user interface has been redesigned.</p> <p>The help has been updated to reflect the changes, see the <a href="#">Hub user guide</a>. The help can also be accessed from the link in the side navigation in Hub.</p>
Configuration	<p>An RPA database with no dependencies can now be removed from Hub.</p> <p>For more information, see <a href="#">Environment management</a>.</p>
Installer	<p>The following new features have been added to the Hub installer:</p> <ul style="list-style-type: none"> <li>• <b>Notification Center SQL configuration and IIS setup</b> – The Notification Center is required to enable the new notification functionality within Interact.</li> <li>• <b>License Manager SQL configuration and IIS setup</b> – Control of the licenses has been moved from within Hub into the new License Manager. The benefit of this is that Interact can still be accessed even if Hub is unavailable. Previously, if Hub was unavailable, Interact would be too.</li> <li>• <b>SignalR IIS setup</b> – This has been taken out of the Interact installer and moved into the Hub installer.</li> </ul>
Licensing	<p>A new website (License Manager) has been created to handle license tasks. The advantage this provides is that if Hub is offline, users can still access Interact. Previously, Hub handled license tasks and if Hub was offline, Interact was unavailable too. The new website is installed and configured using the Hub installer.</p> <p>Hub now displays warnings if all the licenses have been used. For example, if all the ALM licenses have been assigned, a message is displayed against the users and/or roles:</p> <div style="border: 1px solid blue; padding: 10px; margin-top: 10px;"> <p>Automation Lifecycle restriction: 3/0</p> <p><b>WARNING: You are in breach of your license, please remove users, remove the ALM plugin or get in contact with your Accounts Manager for more information</b></p> </div>
Localization	<p>The IMS login page and Hub now display in the language compatible with the user's language settings set in their browser. If the user has an unsupported language selected in their browser settings, English is used as the default. If required, the user can manually change the language they want to use from the drop-down list on the login page.</p>
Supported software	<p>Hub now supports the use of Azure SQL Database.</p>

## Fixes and improvements

The following fixes and minor improvements are included in this version of Hub.

Area	Description of Change
Audit	<p>The following event options have been added to the <a href="#">Audit page</a>:</p> <ul style="list-style-type: none"><li>• Forms submitted</li><li>• Forms declined</li><li>• Forms approved</li></ul> <p>The Digital Worker category has been removed from the Audit page, this also removes the following event options:</p> <ul style="list-style-type: none"><li>• Edited Digital Worker Log</li><li>• Retired Virtual Worker Log</li><li>• Made Live-Virtual Worker Log</li></ul>
Configuration	<p>The following fields have been removed or replaced:</p> <ul style="list-style-type: none"><li>• The <b>SMTP host</b> field in the <a href="#">email configuration</a> has been modified to remove the restrictive validation that was in place. Your organizations SMTP hostname can now be entered and accepted by the field.</li><li>• The <b>IADA URL</b> field has been removed from the database connection information accessed from the <a href="#">Environment manager</a>.</li><li>• The <b>Create a password for user</b> check box has been removed from the <a href="#">Create user</a> page. Instead, a new Create password dialog displays upon completing the new users details and clicking <b>Create user</b>. From this, the administrator can select whether to create a password or send the user a password update email.</li></ul>
User Interface	<p>The level of visual customization has been reduced. UI customization is now restricted to:</p> <ul style="list-style-type: none"><li>• Theme name</li><li>• Brand color</li><li>• Brand logo</li></ul> <p>For more information, see <a href="#">Customization</a>.</p>


## Known issues

A list of any prominent issues with this release is maintained in the knowledge base, click [here](#) for more information.

# Upgrade Hub and Interact

Upgrading Hub and Interact is a simple process that uses dedicated tools. You need to run the upgrade tools in the following order, starting with the version you are currently using:

- Upgrade from 4.0 to 4.1.
- Upgrade from 4.1 to 4.2.


 After you have completed the upgrade, advise your users to log into Hub and clear the cache by pressing **CTRL + F5**. This will refresh all web pages and ensure that any user interface changes are updated.

## Upgrade Hub and Interact 4.0 to version 4.1

It is recommended that you schedule the upgrade to take place outside of working hours.

### Prerequisites

- Version 4.0 of Hub and Interact is installed.
- Everyone is logged out of the IMS Server.
- You have backed up all relevant databases. Although the databases are not impacted by the upgrade, it is recommended that databases are backed up before performing any upgrade.

 The upgrader automatically stops any running websites as part of the upgrade process. You do not need to manually stop them.

### Upgrade steps


1. Download the Blue Prism Interact and Hub Upgrader for version 4.0 to 4.1 from the [Blue Prism Portal](#).
2. Run the upgrader and follow the instructions.
3. Once the upgrader has completed, log in to Hub and open the plugin repository.  
The repository will show that there are plugins ready to update with details of the currently installed and available versions displayed.
4. Select the **All** check box and click **Complete updating**.  
The new versions of the selected plugins are installed and the upgrade to version 4.1 is complete.
5. Repeat the process on all machines on which Hub is installed.

## Upgrade Hub and Interact 4.1 to version 4.2

It is recommended that you schedule the upgrade to take place outside of working hours.

### Prerequisites

- Version 4.1 of Hub and Interact is installed.
- Everyone is logged out of the IMS Server.
- You have backed up all relevant databases. Although the databases are not impacted by the upgrade, it is recommended that databases are backed up before performing any upgrade.
- You have created DNS records for the License Manager and Notification Center to use during this upgrade. This prerequisite is not required for single machine environments.
- SSL certificates for the new web sites; License Manager and Notification Center. See the [Hub Install Guide](#) for more information about SSL certificates.
- You have sufficient database permissions to configure the new databases created as part of this upgrade, such as, dbcreator or sysadmin.
- 2 GB of free disk space on the server where Hub and/or Interact are installed – This is required for the backup that is created until the installation process is complete.

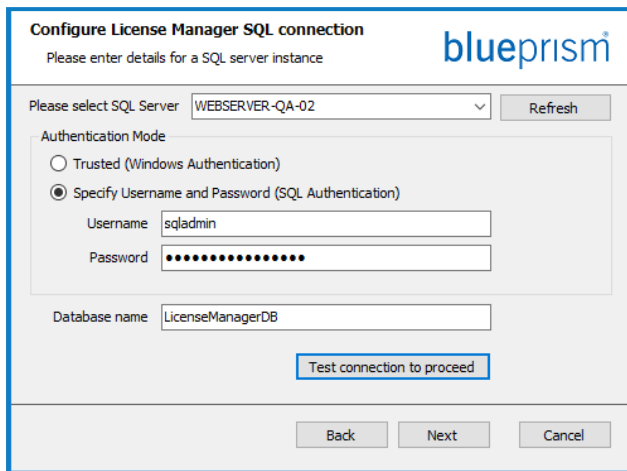
 The upgrader automatically stops any running websites as part of the upgrade process. You do not need to manually stop them.

### Upgrade steps

1. Download the Blue Prism Interact and Hub Upgrader for version 4.1 to 4.2 from the [Blue Prism Portal](#).
2. Unzip the installer on the machine where Hub and Interact 4.1 are installed. It contains two files:
  - Blue Prism Interact and Hub Upgrader.exe – The upgrader executable.
  - BluePrismHubAndInteractUpdate4.2.bin – The binary file needed to upgrade to 4.2.These files must be saved in the same directory.
3. Double-click the upgrader executable to start the upgrader wizard, and on the Welcome to the Hub and Interact Upgrader screen, click **Next**.
4. On the End-User License Agreement screen, read the End-User License Agreement and, if you

agree to the terms, select the check box and click **Next**.


5. On the Configure License Manager SQL connection screen:



a. Configure the settings for the License Manager database by providing the SQL Server host name or IP address, and the credentials for the account to create the database:

- If **Windows Authentication** is selected, the account must have the appropriate permissions.
- If **SQL Authentication** is selected, enter the username and password.

Confirm that **SQL Authentication** is selected, and enter the username and password.

 You must ensure that your database password does not contain an equals sign (=) or a semi-colon (;). These characters are not supported, and will lead to issues when trying to connect to the database.

The database name can be left as the default value or changed as required.

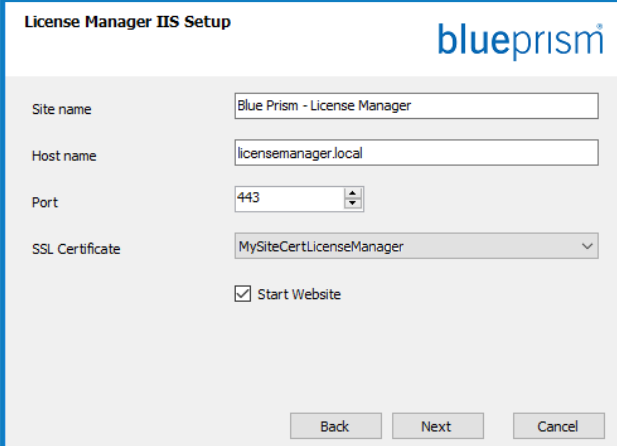
b. Click **Test connection to proceed** to test the SQL credentials and verify connectivity.

A notification will display the result of the test. You will only be able to move on to the next step if the test is successful.

c. Click **Next**.



## 6. On the License Manager IIS setup screen:




The screenshot shows the 'License Manager IIS Setup' dialog box. It has a title bar with the text 'License Manager IIS Setup' and the 'blueprism' logo. The dialog contains the following fields and controls:

- Site name:** A text box containing 'Blue Prism - License Manager'.
- Host name:** A text box containing 'licensemanager.local'.
- Port:** A spinner box set to '443'.
- SSL Certificate:** A dropdown menu showing 'MySiteCert.LicenseManager'.
- Start Website:** A checked checkbox.
- Buttons:** 'Back', 'Next', and 'Cancel' buttons at the bottom.

## a. Configure the License Manager website.

You need to:

- Enter a site name.
- Enter a host name in lowercase characters – This will be used as the URL for the site. The first part of the default host name must not be changed. You can only change the `.local` part of the host name. Ensure that you consider your DNS and Domain structure when choosing a host name.

 The use of uppercase characters in URLs is not supported.

- Enter the port number.
- Select the appropriate SSL certificate.
- Select **The One Cert** SSL certificate.
- Leave **Start Website** selected, unless you do not want the website to automatically start at the end of the installation.

b. Click **Next**.

## 7. On the Notification Center SQL connection screen:

**Configure Notification Center SQL connection**  
Please enter details for a SQL server instance

Please select SQL Server: WEBSERVER-QA-02 Refresh

Authentication Mode

☐ Trusted (Windows Authentication)

☒ Specify Username and Password (SQL Authentication)

Username: sqladmin

Password: [masked]

Database name: NotificationCenterDB


Test connection to proceed

Back Next Cancel

- a. Configure the settings for the Notification Center database by providing the SQL Server host name or IP address, and the credentials for the account to create the database:

- If **Windows Authentication** is selected, the account must have the appropriate permissions.
- If **SQL Authentication** is selected, enter the username and password.

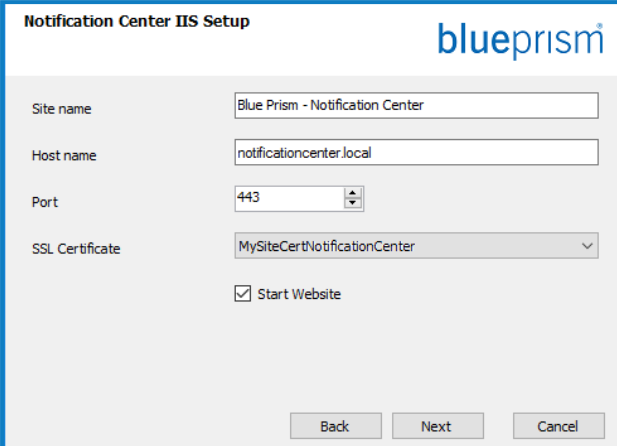
Confirm that **SQL Authentication** is selected, and enter the username and password.

 You must ensure that your database password does not contain an equals sign (=) or a semi-colon (;). These characters are not supported, and will lead to issues when trying to connect to the database.

The database name can be left as the default value or changed as required.

- b. Click **Test connection to proceed** to test the SQL credentials and verify connectivity.  
A notification will display the result of the test. You will only be able to move on to the next step if the test is successful.
- c. Click **Next**.


## 8. On the Notification Center IIS setup screen:

The image shows a 'Notification Center IIS Setup' dialog box with the Blue Prism logo in the top right corner. It contains four input fields: 'Site name' with the text 'Blue Prism - Notification Center', 'Host name' with 'notificationcenter.local', 'Port' with '443', and 'SSL Certificate' with a dropdown menu showing 'MySiteCertNotificationCenter'. Below these fields is a checked checkbox labeled 'Start Website'. At the bottom are three buttons: 'Back', 'Next', and 'Cancel'.

## a. Configure the Notification Center website.

You need to:

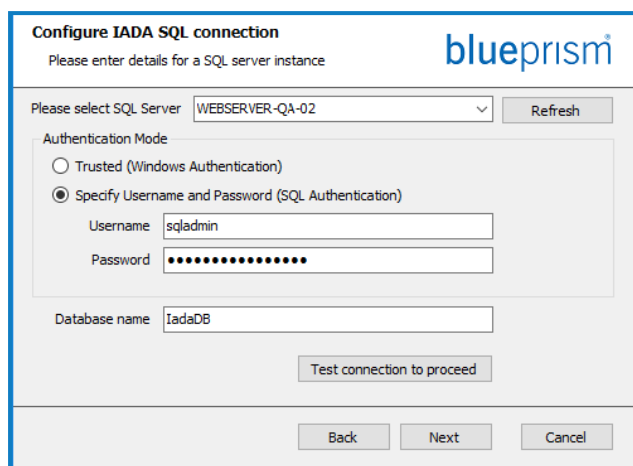
- Enter a site name.
- Enter a host name in lowercase characters – This will be used as the URL for the site. The first part of the default host name must not be changed. You can only change the *.local* part of the host name. Ensure that you consider your DNS and Domain structure when choosing a host name.

 The use of uppercase characters in URLs is not supported.

- Enter the port number.
- Select the appropriate SSL certificate.
- Select **The One Cert** SSL certificate.
- Leave **Start Website** selected, unless you do not want the website to automatically start at the end of the installation.

b. Click **Next**.


9. On the Configure IADA SQL configuration screen:



a. Configure the settings for IADA by providing the SQL Server host name or IP address, and the credentials for the account to create the database:

- If **Windows Authentication** is selected, the account must have the appropriate permissions.
- If **SQL Authentication** is selected, enter the username and password.

Confirm that **SQL Authentication** is selected, and enter the username and password.

 You must ensure that your database password does not contain an equals sign (=) or a semi-colon (;). These characters are not supported, and will lead to issues when trying to connect to the database.

The database name can be left as the default value or changed as required.

b. Click **Test connection to proceed** to test the SQL credentials and verify connectivity.

A notification will display the result of the test. You will only be able to move on to the next step if the test is successful.

c. Click **Next**.

10. On the Ready for Upgrade to 4.2 screen, click **Next** to upgrade Hub and Interact to 4.2.

11. On the Completed the Blue Prism Hub and Blue Prism Interact upgrade screen:

- When the upgrade completes successfully, click **Finish**.
- If the installation failed, the **View Log** option will give you details of the error that was encountered. For more information, see [Troubleshooting upgrades](#).

## 12. Ensure the database permissions for the new databases are:

Application name	Example service account name for SQL Windows Authentication	SQL Server permissions required during installation	Database permissions required during application running	Default database name
Blue Prism - Notification Center	IIS APPPOOL\Blue Prism – Notification Center	dbcreator / sysadmin	db_datawriter / db_datareader	NotificationCenterDB
Blue Prism - License Manager	IIS APPPOOL\Blue Prism – License Manager	dbcreator / sysadmin	db_owner  Or db_datawriter / db_datareader with <a href="#">execute permissions</a> (see below)	LicenseManagerDB

When the application is running, the License Manager requires appropriate permissions to execute stored procedures. If you do not want to use db\_owner as the permission level, you can use db\_datawriter/db\_datareader and run the following SQL script to provide the required level to that user:


```
USE [LicenseManagerDB]
GRANT EXECUTE to "IIS APPPOOL\Blue Prism - License Manager"
```

Where:

- [LicenseManagerDB] is the database name for License manager.
- "IIS APPPOOL\Blue Prism - License Manager" is the username.

## 13. If using Windows Authentication:

- Change the Application Pools Identity of the newly installed License Manager and Notification Center to match the Application Pools that already exist for Hub and Interact.
- Give the Identity, under which the IIS pools run, access to the BPC\_SQL\_CERTIFICATE certificate. To do this, open Manage Computer Certificates from the Windows taskbar. In the Personal folder, right-click the certificate and select **All tasks > Manage Private Keys**. Add the user that matches the Identity and give the user Full control.

 Access to this certificate is required by Identity running the Blue Prism – Hub and Blue Prism – IADA Application Pools.


- Check the file permission is set to Full Control for the service account on the new folders:
  - C:\Program Files (x86)\Blue Prism\Notification Center
  - C:\Program Files (x86)\Blue Prism\License Manager.

## 14. Restart the RabbitMQ Service.

## 15. Restart all Application Pools.

## 16. Restart IIS.

## 17. Repeat the process on all machines on which Hub is installed.

 The plugins are automatically updated to the latest version as part of the upgrade process.

## Troubleshooting upgrades

### The upgrade says it ended prematurely, what happens now.

The upgrade process has been designed so that if a failure is encountered, it rolls back the install and reinstates the version you were upgrading from. During the upgrade, the folder *backup\_4.n* is created in the installation location (by default, C:\Program Files (x86)\Blue Prism\), where *4.n* reflects the existing version number. This contains a copy of the existing installed files and is used as the roll back source if an error is encountered during the installation.

You can try running the upgrader again. Before retrying an upgrade, read any error messages and log files created during the upgrade and ensure any issues have been addressed before attempting the upgrade again.

If this issue persists, please contact Blue Prism Support.

### I have upgraded to version 4.2 but the 4.1 user interface still displays.

If this is encountered, clear your browser cache and reload the page.

### I have upgraded from 4.1, however, none of my new queues are being created.

This is likely due to the quorum queue feature not being enabled in RabbitMQ. If you check the Hub logs, you will see the error "*the 'quorum\_queue' feature is disabled*".

1. On the Message Broker server, run the RabbitMQ command:

```
rabbitmqctl enable_feature_flag quorum_queue
```

2. On the Hub web server, restart the application pools.

The queues are created.

### Following an upgrade, when I attempt to log into Interact or Hub, I am seeing an error related to SignalR about overloading the web server in IIS.

This error is very rare but if it does occur, reload the site and restart the application pools in IIS.

### I canceled an installation during the upgrade process and I am now seeing errors.

It is recommended that installations are not canceled during the upgrade process. However, although errors may be seen, the rollback operation will complete successfully.

## Previous Releases

### Hub 4.1 – November 2020

This release note is for the 4.1 release of Blue Prism Hub delivered in an on-premise configuration.

#### Upgrading

The Blue Prism Interact and Hub Upgrader can be downloaded from the customer portal. This easy-to-use tool will upgrade 4.0 to 4.1. For more information, see [Upgrade Hub and Interact on page 6](#).

#### Enhancements

The following new features and enhancements are introduced in this version of Hub.

Area	Description of Change
Authentication	Active Directory Authentication using LDAP can now be used to leverage the advantages of single sign-on. Once this connection has been established, users will be able to use their corporate logins to sign into Hub or Interact. This removes the need for the Hub Administrator to set up local users.
Installer	<p>The following enhancements have been made to the Hub installer:</p> <ul style="list-style-type: none"><li>• Server Manager roles and features automatically install – This requires VMs to restart after the installation; the choice can be made to restart immediately or later.</li><li>• Customer ID is now entered through a new screen, rather than manually updating the customerid key in the appsettings.json file after installation.</li><li>• Enhanced SQL screens:<ul style="list-style-type: none"><li>• Test connection button – This ensures that the information entered establishes a successful SQL connection. The installation cannot progress to the next step without a successful connection.</li><li>• Inherited values from the previous SQL screen – This prevents the user from having to enter the same SQL information across multiple screens.</li></ul></li></ul>
Tools	<p>A new tool has been added for encrypting and decrypting of connection strings.</p> <p>For security reasons the appsettings.json files for all the web sites are encrypted. If changes are needed to the configuration settings in this file, the encrypting/decrypting console application allows the file to be decrypted and then encrypted again.</p> <p>See <a href="#">Blue Prism Data Protector Tool</a> for more information.</p>

## Fixes and improvements

The following fixes and minor improvements are included in this version of Hub.

Area	Description of Change
Authentication	Previously, if Windows Authentication was selected within the Hub Database settings, the username and password fields were still available. These fields are now unavailable if the Windows Authentication option is selected, which reduces the likelihood of any potential SQL errors.
Installer	<p>The following improvements have been made to the Hub installer:</p> <ul style="list-style-type: none"><li>• The installer has been renamed to Blue Prism Hub from Blue Prism Base.</li><li>• Increased maximum number of users – Previously the maximum pool size used the default value. The maximum pool size has now been set to 500, thus allowing more users.</li><li>• Legal and visual enhancements:<ul style="list-style-type: none"><li>• The End-User License Agreement (EULA) has been reformatted.</li><li>• The publisher name has been updated to "Blue Prism Limited" throughout the installer.</li></ul></li></ul>

## Known issues

A list of any prominent issues with this release is maintained in the knowledge base, click [here](#) for more information.



## Hub 4.0 – September 2020

This release note is for the 4.0 release of Blue Prism Hub delivered in an on-premise configuration.

### Enhancements

The following new features and enhancements are introduced in this version of Hub.

Area	Description of change
Plugins	The following enhancements have been made to Hub's plugin repository: <ul style="list-style-type: none"><li>• Differentiating all, free and licensed plugins drop-down</li><li>• Differentiating all, free and licensed plugins label</li><li>• Enter license file modal</li><li>• Renew plugin license tab</li><li>• Renew license modal</li></ul>
	The following enhancements have been made to Hub's plugin expiry functionality: <ul style="list-style-type: none"><li>• A warning now displays when a plugin is about to expire</li><li>• When a plugin license expires, the following can no longer be accessed:<ul style="list-style-type: none"><li>• Interact plugin</li></ul></li></ul>
Customization	The following changes have been made to Hub's customization functionality: <ul style="list-style-type: none"><li>• New default Blue Prism inline image</li><li>• New default Blue Prism logo image on IMS</li><li>• Company and Strapline values have been removed from Customization</li></ul>
Installer	Base installer
Security	The following enhancements have been added to improve security in Hub: <ul style="list-style-type: none"><li>• Code Obfuscation for IMS</li><li>• Code Obfuscation for Hub</li></ul>

### Plugin updates

A number of plugins are provided in a release – new and/or updated plugins are listed below.

### Updated plugins

Plugin	Description
Interact	Priority and SLA no longer required fields when creating an Interact form.

### Known issues

A list of any prominent issues with this release is maintained in the knowledge base, click [here](#) for more information.