ibaManagementStudio v1.3.0

New features

5/31/2023
iba Gent

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1 ibaVision integration

An ibaVision product page was added to the ibaManagementStudio web client to display diagnostic information from the software product. This feature requires **ibaVision v3.1.0 or higher**. In ibaManagementStudio v1.3.0 the following ibaVision diagnostics are available:

- Application status and license information (*General tab*).

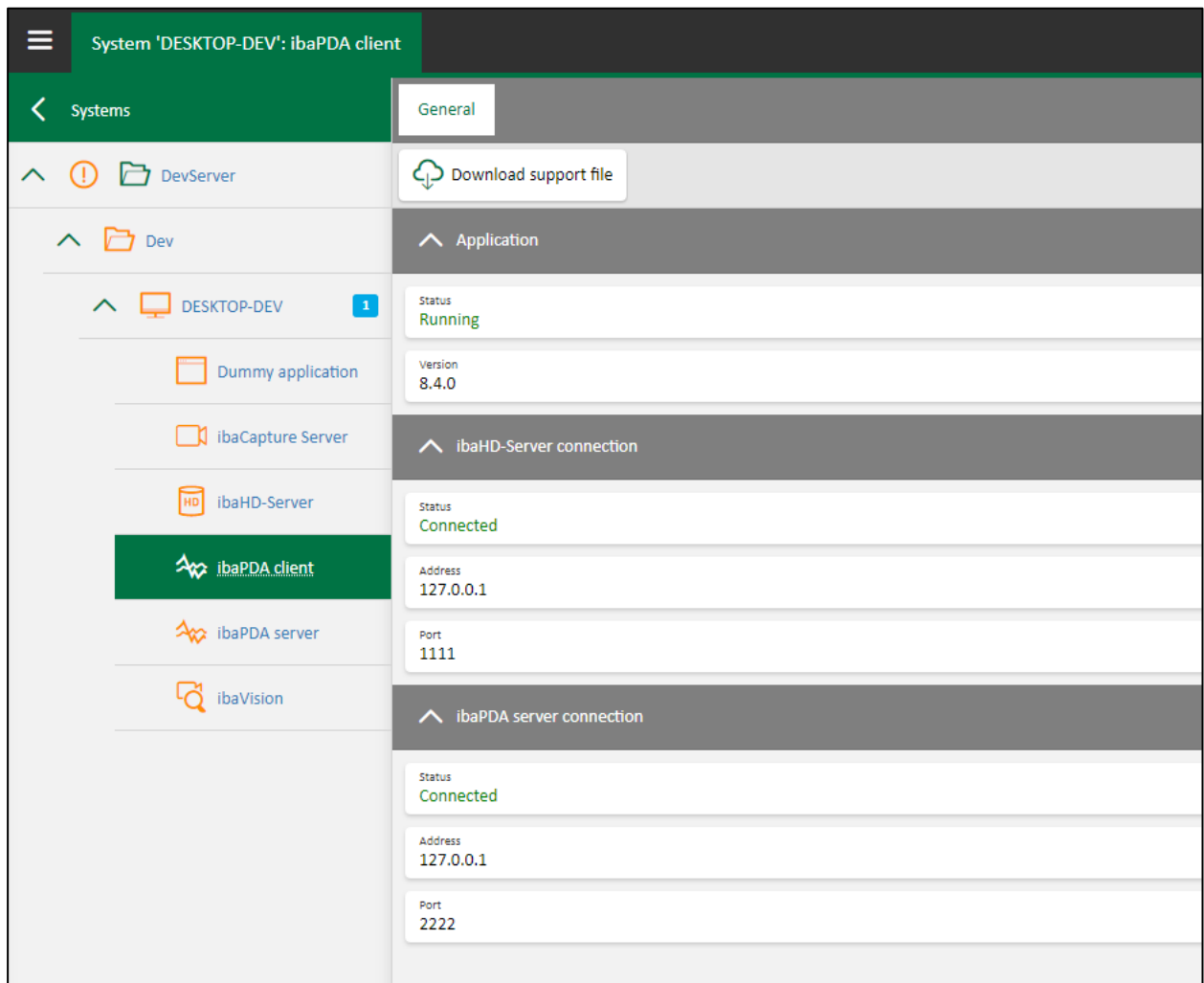- Configured ibaVision programs and their status (*Programs tab*).

In addition to displaying diagnostic information, ibaManagementStudio supports the remote generation and download of ibaVision support files.

⚠ **Important:** To access the ibaVision diagnostic information via the web client, ibaManagementStudio Agent v1.3.0 or higher must be installed and running on the remote system (on which ibaVision is installed and running). In addition to this, the agent service must be added to the systems configuration of the ibaManagementStudio Server.

2　ibaPDA client integration

An ibaPDA client product page was added to the ibaManagementStudio web client to display diagnostic information from the software product. This feature requires **ibaPDA client v8.4.0 or higher**. In ibaManagementStudio v1.3.0 the following ibaPDA client diagnostics are available:

- Application status and connections (*General tab*).

In addition to displaying diagnostic information, ibaManagementStudio supports the remote generation and download of ibaPDA client support files.

⚠ **Important:** To access the ibaPDA client diagnostic information via the web client, ibaManagementStudio Agent v1.3.0 or higher must be installed and running on the remote system (on which the ibaPDA client is installed and running). In addition to this, the agent service must be added to the systems configuration of the ibaManagementStudio Server.

⚠ **Important:** If multiple instances of the ibaPDA client are running on the same system, only one instance will be able to connect to and communicate with ibaManagementStudio.

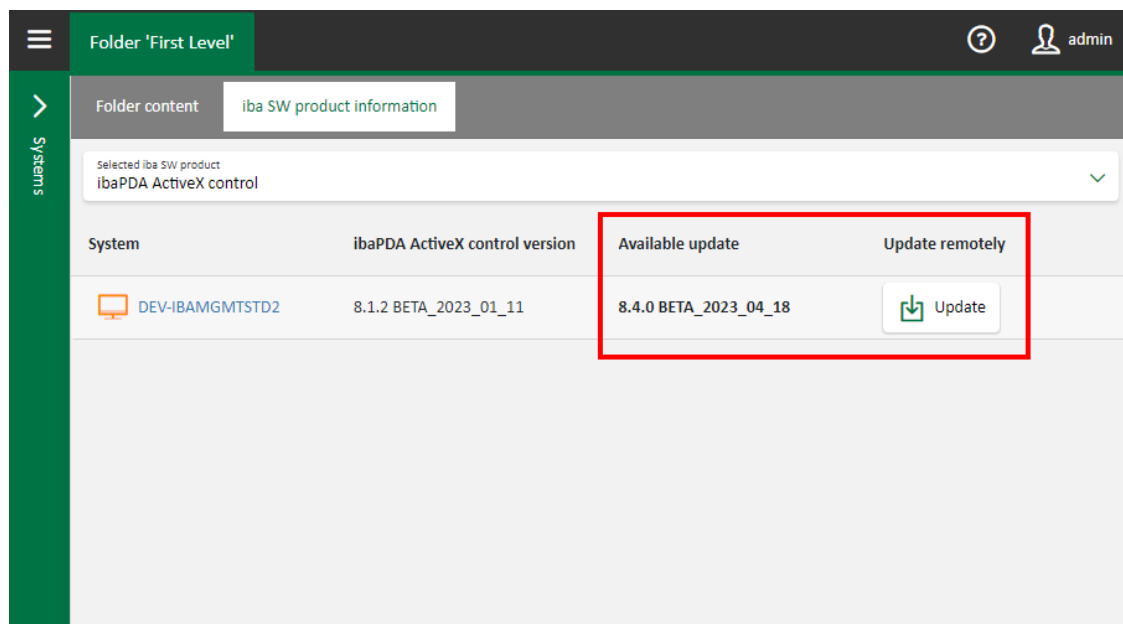# 3 Folder page: software product information tab

The tab 'iba SW product information' was added to the folder page, next to the tab 'Folder content'. The 'Folder content' shows the original folder page structure containing the subfolders and systems, while the 'iba SW product information' tab lists the systems from the corresponding folder grouped by the installed iba software products.
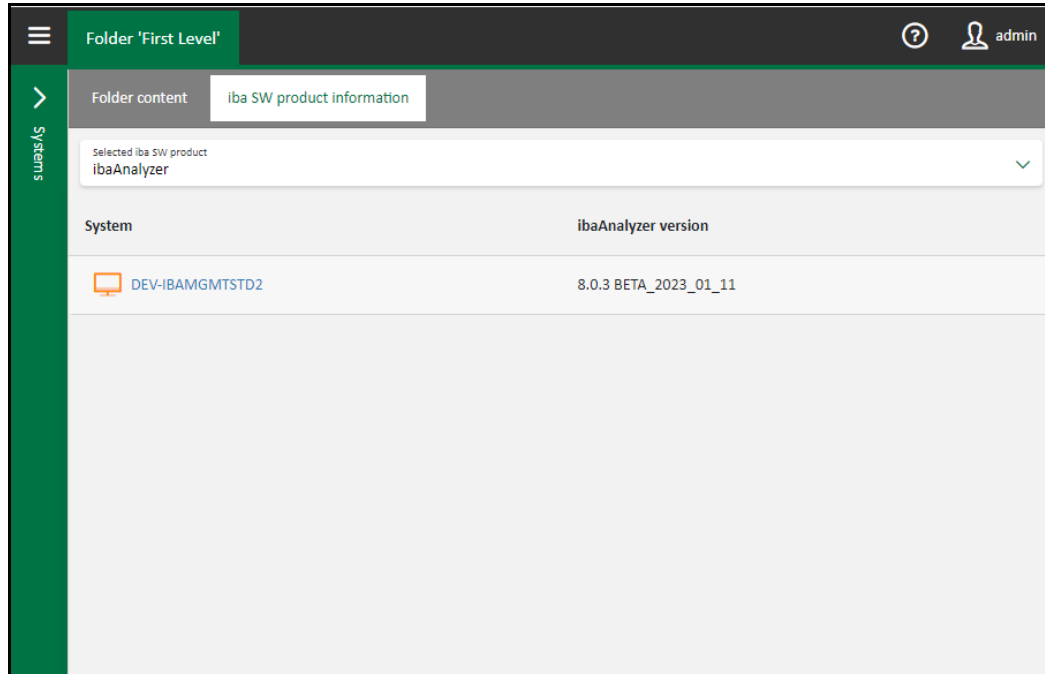
The 'Selected iba SW product' dropdown contains all the installed iba products from all the systems inside the corresponding folder. Changing the selected product will show the subset of systems on which this product installed, as well as the version of the product on those systems.
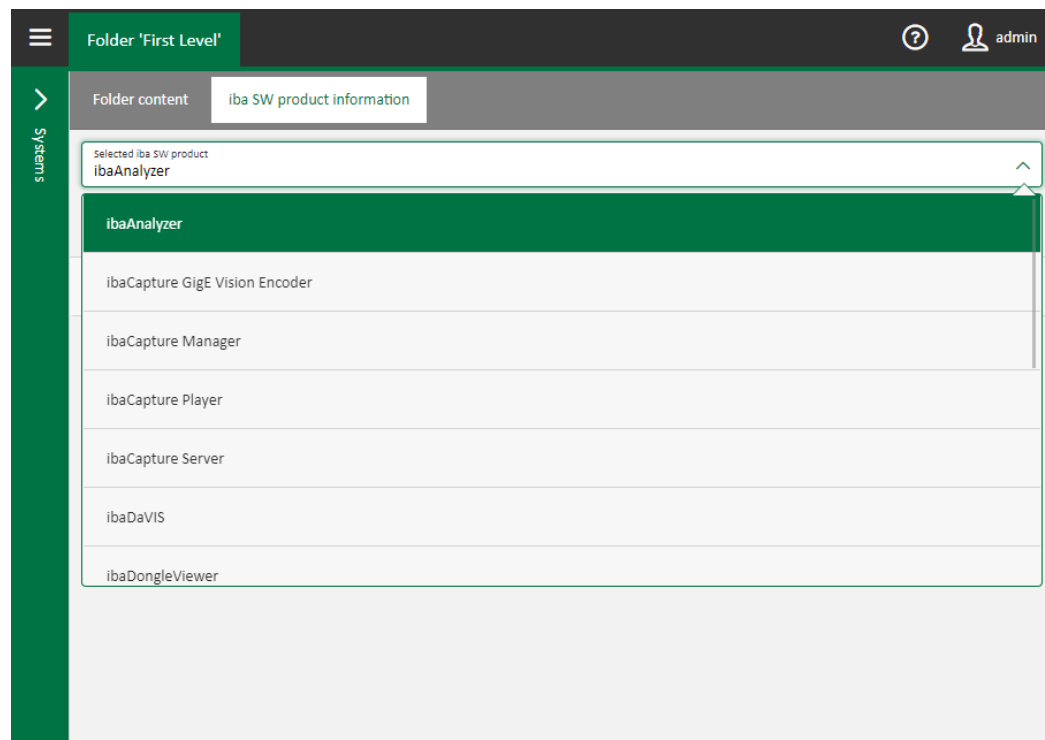
Moreover, if the listed system's selected iba product can be updated to a higher version (based on the available installer files in the repository), the version of the available upgrade will be shown in the column 'Available update' and an update button in the column 'Update remotely'.

Clicking on the 'Update' button will start the remote SW update process with a popup. More information on this can be found in chapter [5].

4   Repository page

4.1   Page content

The page 'Repository' was added to the ibaManagementStudio web client, that can be accessed via the main menu. This page can be used to manage the available iba software product installer files in the local ibaManagementStudio Server file repository. The user permission 'Manage settings' is required to access this page.
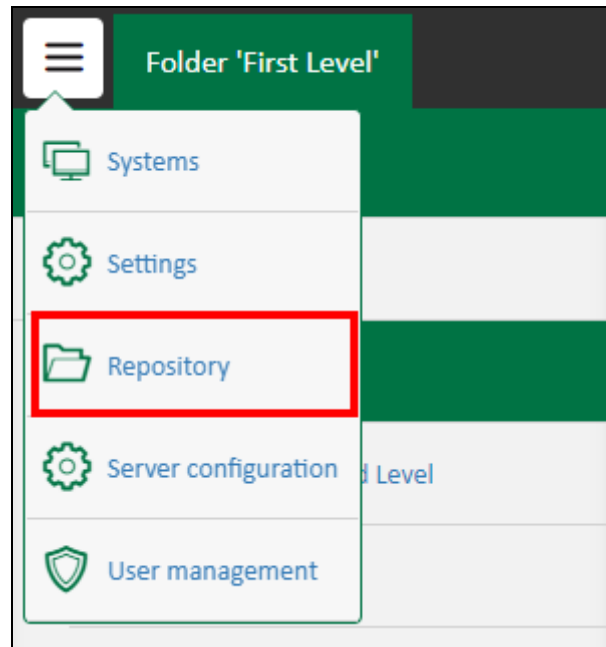
The installer file list shows the available installers and their version for the selected product.
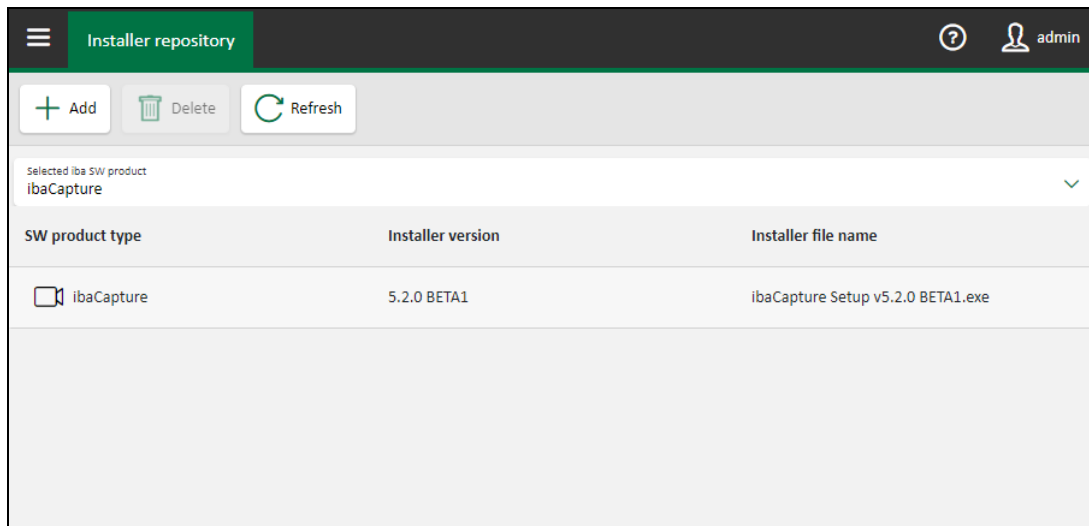
Note: The location of the file repository can be changed under the tab 'Settings' in the ibaManagementStudio Server status application using the 'File repository' setting.
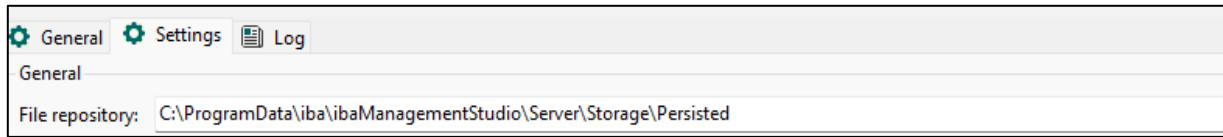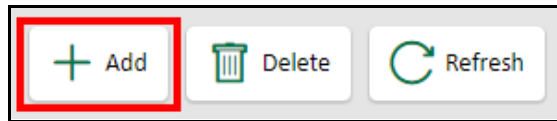

⚠ **Important:** Remote updates are only supported by the ibaManagementStudio for a subset of the iba software products. The 'Repository' page will only show the installers for those products. Hence, the limited dropdown list to select a product. The list of products for which remote updates are supported can be found in chapter [5].

4.2   Adding a new installer file

It is possible to upload installer files to the repository by clicking on the 'Add' button in the page toolbar.


⚠ **Important:** The installer upload is limited to products for which the ibaManagementStudio supports remote updates. The list of products for which remote updates are supported can be found in chapter [5].

After clicking on the 'Add' button, a file uploader popup will be shown to select the desired installer file. To select a file for upload, click the button 'Choose file'.
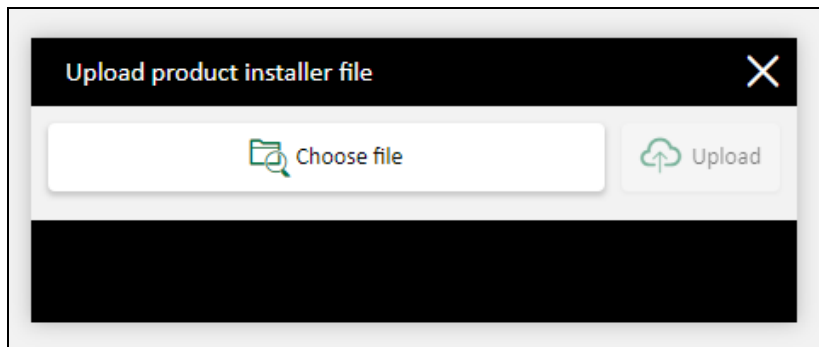
After selecting a file, click 'Upload' to start uploading to the ibaManagementStudio Server repository. The popup shows the upload status and progress. On this file upload popup, the status of the upload can be monitored. The upload can be aborted by clicking 'Abort'.
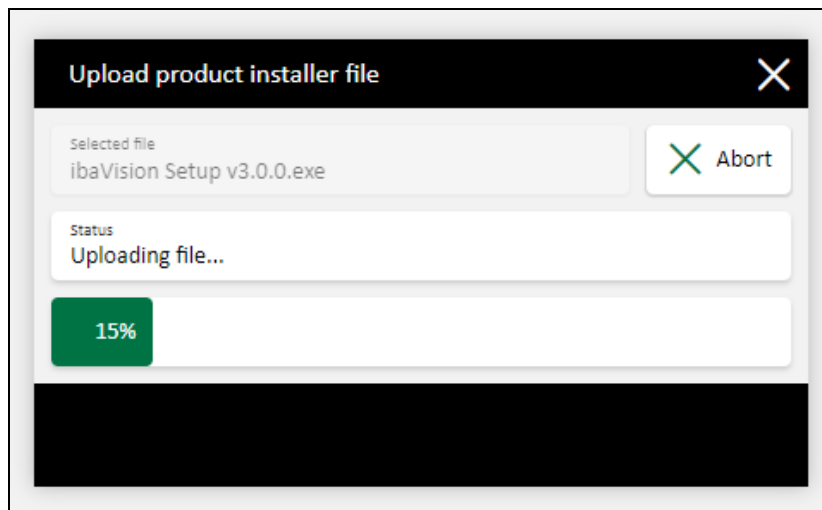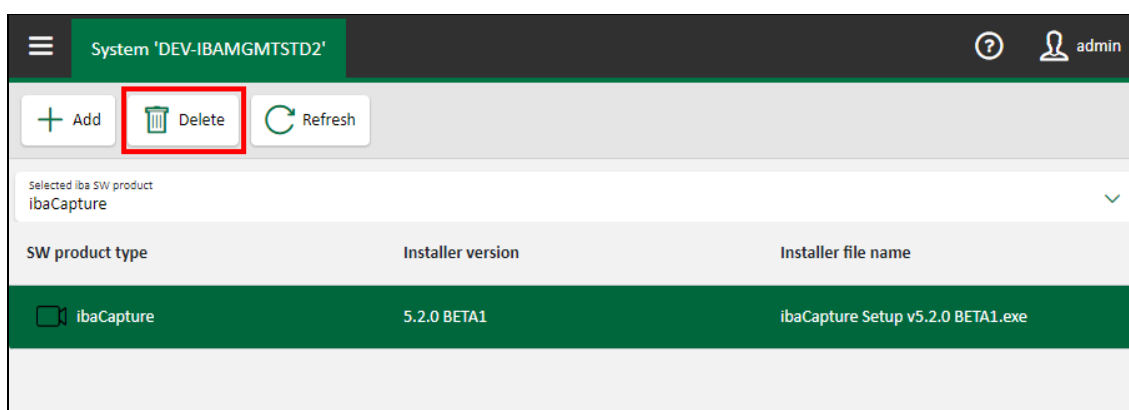

Notes:

- The popup is not linked to the product type selected via the dropdown on the repository page. Any installer of the remotely updateable products can be uploaded via this popup, regardless of the selected product type.

- Uploading an installer file that is already present in the file repository will overwrite the file. If the pre-existing file is in use, the upload will fail.

- It is required to select a new file to start a new upload in case of an abort or after a successful upload.

- After a successful upload, the ibaManagementStudio Server updates the software update notifications for the systems (see sections [5.1] and [5.6]).

4.3　Deleting an installer file

Deleting an installer file from the repository requires two actions:

1. Select an installer by clicking on its row in the grid.

2. Click the button 'Delete'. This button is only enabled if an installer file is selected. When clicking the button, a popup will ask the user to confirm the deletion. After the confirmation, the file is deleted permanently.


Notes:

- If a deletion fails for any reason, an error popup will appear.

- After a successful deletion, the ibaManagementStudio Server updates the software update notifications for the systems (see sections [5.1] and [5.6]).

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4.4　Refresh the repository contents data

Users who have access to the file repository location can add/remove files from the repository manually. To support this, the ibaManagementStudio Server checks the repository periodically with a five-minute interval. To refresh the repository contents immediately, click the button 'Refresh'.
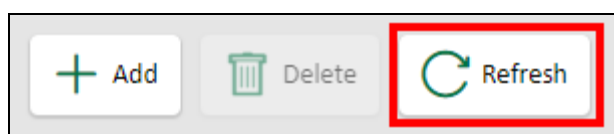
Note: If an external change is detected in the file repository (either by the periodic checks or a forced refresh), the ibaManagementStudio Server updates the software update notifications for the systems (see sections [5.1] and [5.6]).

5 Remote iba software updates

It was already possible to update the ibaManagementStudio Agent remotely from the ibaManagementStudio web client. In ibaManagementStudio v1.3.0, the list of remotely updateable products was expanded to the following:

- ibaCapture
  - ○ ibaCapture Server
  - ○ ibaCapture Player
  - ○ ibaCapture Manager
  - ○ ibaCapture GigE Vision Encoder
- ibaHD-Server
- ibaManagementStudio Agent
- ibaPDA
  - ○ ibaPDA client
  - ○ ibaPDA server
 - ○ ibaPDA ActiveX
  - ○ ibaPDA S7 Explorer Proxy
- ibaVision

⚠ **Important:** ibaManagementStudio v1.3.0 only supports product updates, meaning that an older version of the product must already be installed on the system. Fresh installations are not supported in ibaManagementStudio v1.3.0.

5.1 Software update notifications

The newly added blue notification badges make users aware of available updates. These notification badges are shown when the file repository contains an installer with a version is more recent than the installed product version on the remote system. The notification badges are updated in the following scenarios:

- The ibaManagementStudio Server detects a change in the file repository (e.g., an installer was added or removed).

- The ibaManagementStudio Server receives updated information about the installed products on the systems. If a system is offline, the notifications are based on the cached offline data (if available).

The number in the notification badge represents the number of available updates for this system. Hovering over the notification badges will show a tooltip that lists the available updates.
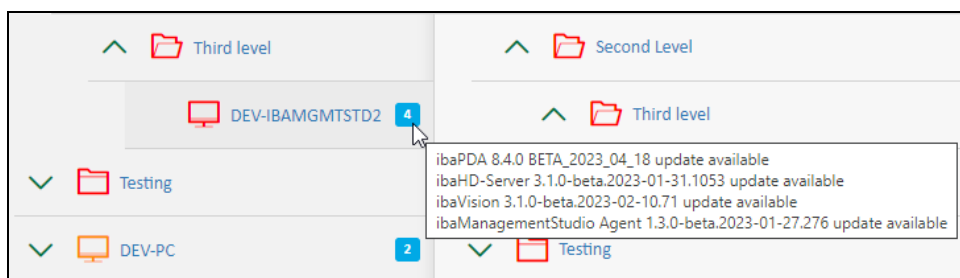
5.2   Enabling remote actions for remote products

For safety, the execution of remote actions on remote systems is disabled by default in the ibaManagementStudio Server. Any action that possibly interferes with the execution statuses of processes on the remote system is considered to be a remote action. This includes remote updates of iba software products. This prevents users from accidentally stopping a running ibaPDA service, for example, while the data acquisition must not be interrupted. If the execution of remote actions is desired, then this must be enabled for each system individually. When editing a system entry on the systems configuration page, toggle the button 'Remote actions' and apply the changes. After saving the new configuration, remote actions will be enabled for that system.

⚠ **Important:** Remote updates of ibaManagementStudio Agent services are excluded from this setting. They can be updated remotely regardless of whether remote actions are enabled or not.

5.3　Update button

Remote updates can be started by clicking the button 'Update' in the grid column 'Update remotely' on the tab 'iba SW product information' (on both the system and the folder page). The button is only shown when an update is available. The column 'Available update shows the version to which the product can be upgraded.

In case the update prerequisites (see section [5.4]) are not met, the button is disabled. Hovering over the disabled button will show the missing prerequisites in a tooltip.

Note: Certain products consist of multiple components. If an update is available for the product, each component entry for that product will show the update button. Updating one component of a product means that every component of that will be updated. E.g., if an update for ibaPDA is available and both the ibaPDA client and server are installed on the remote system, both entries will show the update button. Updating the ibaPDA client will automatically result in an update of the ibaPDA server as well.

5.4   Update prerequisites

The following prerequisites must be met before a remote update can be started:

⚠ **Prerequisite 1:** Remote actions must be enabled for the system (except for an upgrade of the ibaManagementStudio Agent). See section [5.2].

⚠ **Prerequisite 2:** The target software product needs to be an updateable product. See chapter [5].

⚠ **Prerequisite 3:** The user must have the system permission 'Edit' for this system.

⚠ **Prerequisite 4:** ibaManagementStudio Agent v1.1.0 or higher must be installed on the remote system.

⚠ **Prerequisite 5:** The ibaManagementStudio Agent service must be running and connected to the ibaManagementStudio Server.

5.5   Remote update process

After clicking the button 'Update', a popup will appear. This popup will list the installers for the product available in the file repository. By default, the most recent installer will be preselected.
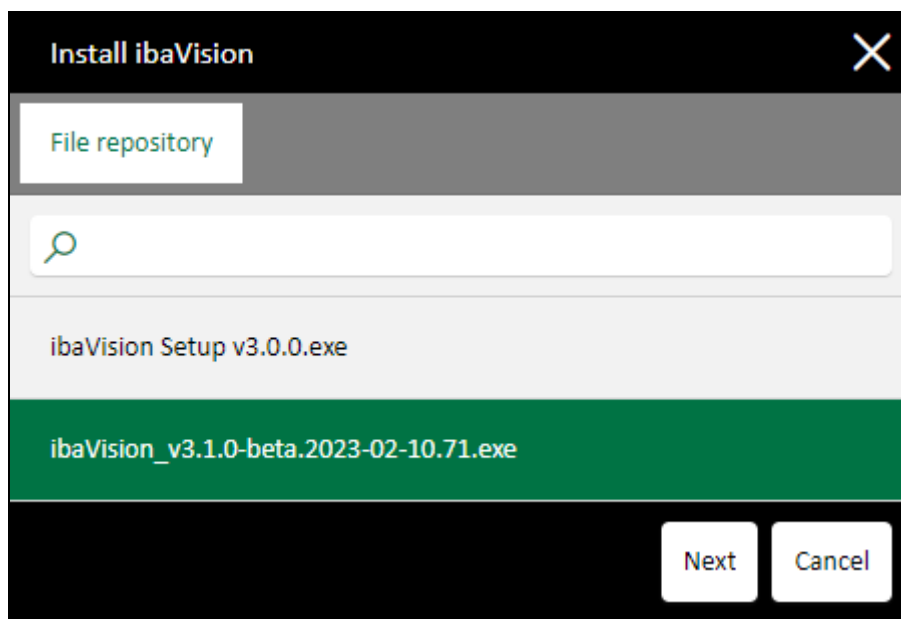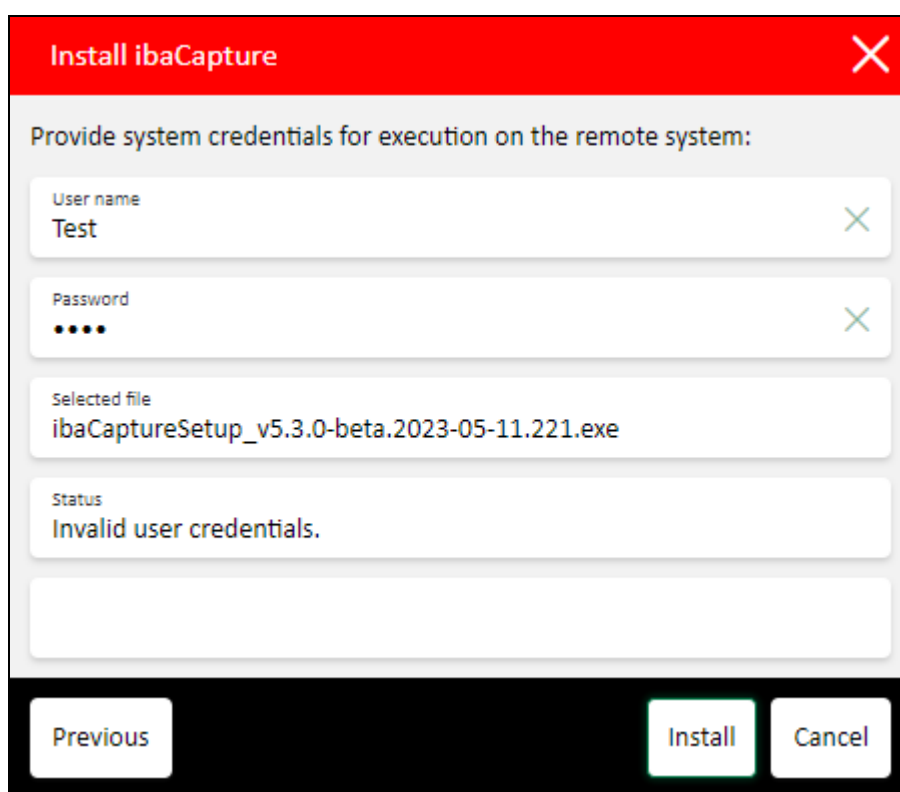

After clicking on the button 'Next', the ibaManagementStudio Server checks whether the product is running or not (if applicable). If the product is running, a warning is shown and the user is asked to confirm the update.
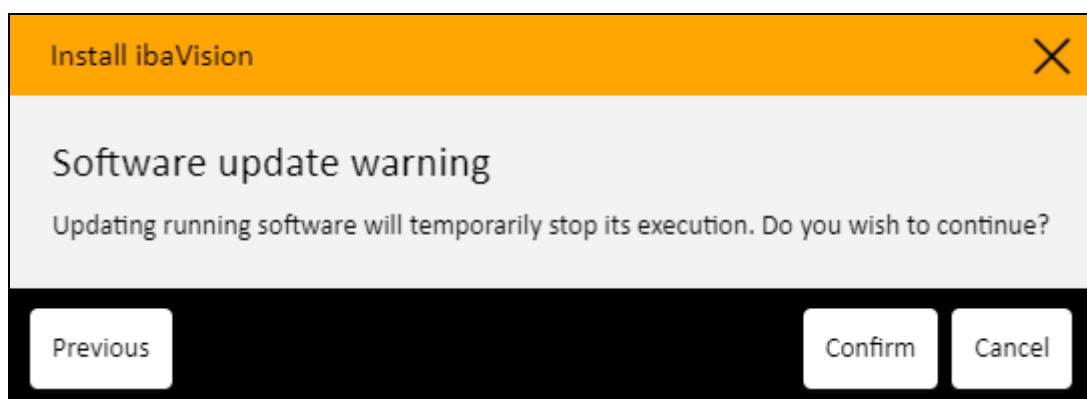
⚠ **Important:** A remote update will temporarily stop the product during the update. The product will be restarted once the installation process is finished.

In the final step, the user has to enter user credentials under which the installer will be executed on the remote system. Clicking on install performs certain security checks on the file and, after passing the checks, transfers the installer file to the remote system. After a successful transfer, the ibaManagementStudio Agent service attempts to run the installer in silent mode under the given credentials. On the popup, feedback is shown of the installation process as well as the end result.

⚠ **Important:** In order to avoid the unnecessary transfer of large installer files, the ibaManagementStudio Server attempts to validate the provided user credentials before the transfer. This improvement requires both ibaManagementStudio Server and Agent v1.3.0 or higher. Older versions do no support this optimization.

5.6   'ibaManagementStudio Agent'-side notifications

When the ibaManagementStudio Server detects software updates, they are also sent to the ibaManagementStudio Agent. A new tab 'Updates' in the ibaManagementStudio Agent status applicatioin lists the available updates. It shows the target product, the installer file name and the updateable target version. Whereas remote updates via the ibaManagementStudio web client can be disabled (see section [5.2]), manual updates via the ibaManagementStudio Agent status application are always possible.
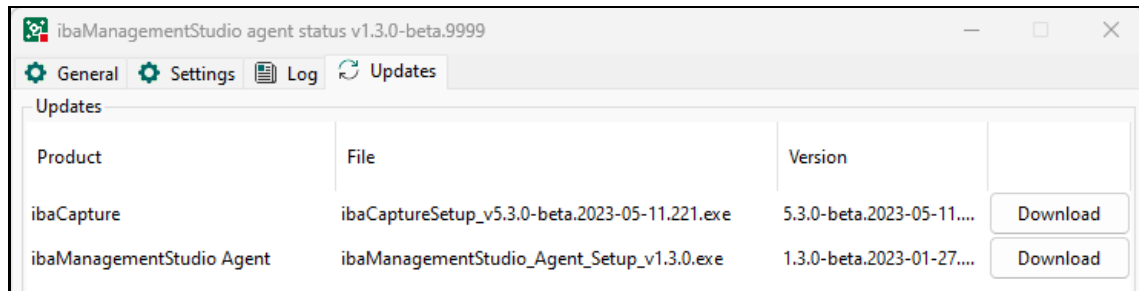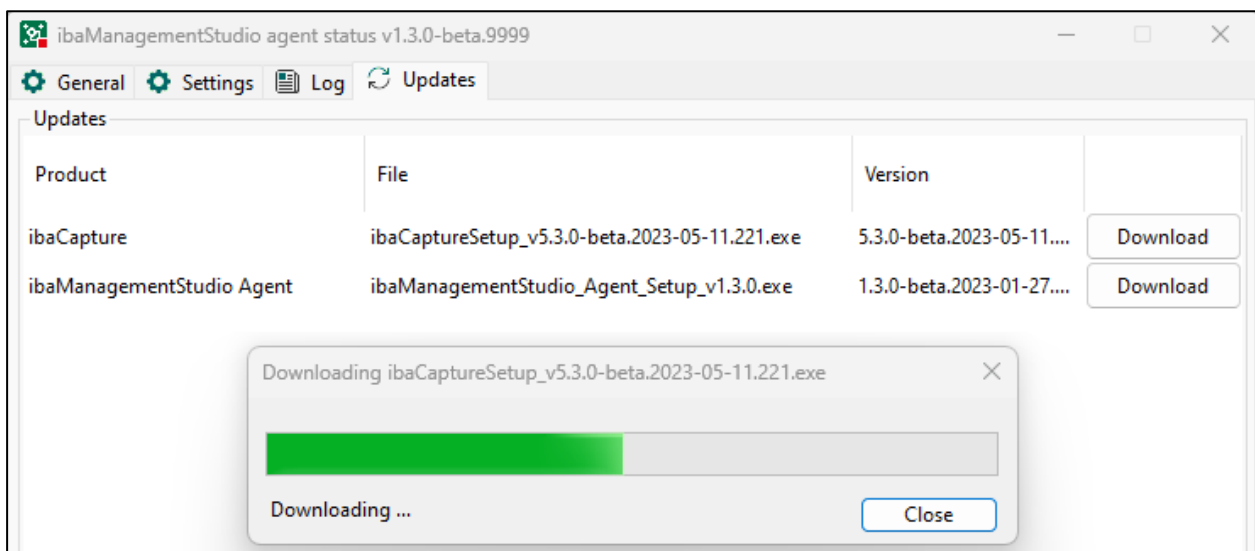

Clicking on the 'Download' will download the installer file from the ibaManagementStudio Server system.

After a successful download, the user can navigate to the installer file by clicking on 'Browse'. The download folder for the installers is *%PROGRAMDATA%\iba\ibaManagementStudio\Agent\Storage\Public'*.
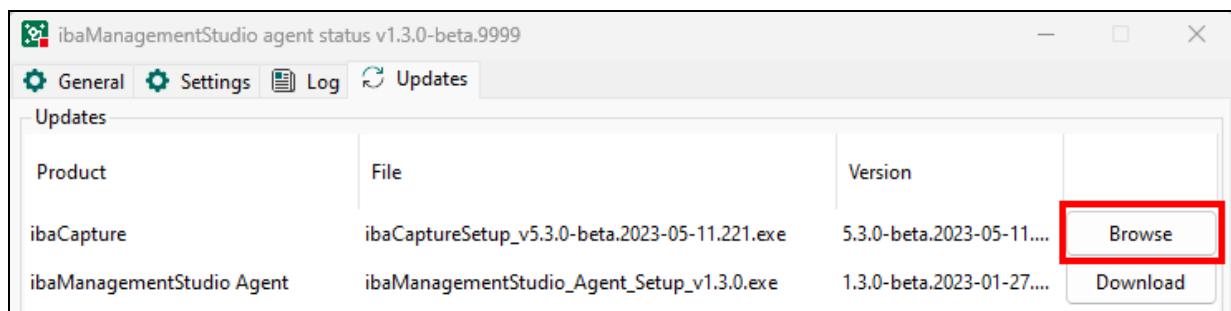
# 6   Miscellaneous

- **ibaHD-Server store type icons and time periods:** Icons are shown for each store type. Time periods are visible in a separated grid after selecting a timebased store (if available).

General	Data stores	Connections	ibaHD-API			
Name	**Type**		**Storage path**	**Signals**	**Size limit**	**Time limit**
HD time store 1	🕒		C:\hd_stores\hd_time_store\	0	0.1 / 10 GB	0 / 20 days
HD event store 1			C:\hd_stores\hd_event_store\	0	0.1 / 10 GB	0 / 20 days
HD length store 1			C:\hd_stores\hd_length_store\	0	0.1 / 10 GB	0 / 20 days
∧ Time periods						
Name	**Type**		**Database**		**Table**	**Time limit**
Test time period 1	🕒		ibaHD TimePeriod DB		Test time period 1	30 days

- **Last update time (cached offline data):** The last update time is visible together with the cached data if a system is in offline state.

General information	iba SW product information	Hardware information	License information
Offline mode - Last update time: 5/18/2023 9:56:38 AM			

- **Support file downloads:** After clicking the support file download button on the tab 'iba SW product information', the user can select which products' support file needs to be included in the generated archive file (all products are selected by default). In ibaManagementStudio v1.3.0, the following products are supported: ibaManagementStudio Agent, ibaHD-Server, ibaPDA server and client, ibaVision and ibaCapture. A product is only listed if it is connected to the ibaManagementStudio Agent.

Select products   ✕

✓ ibaHD-Server

✓ ibaManagementStudio Agent

✓ ibaPDA server

[Create] [Cancel]
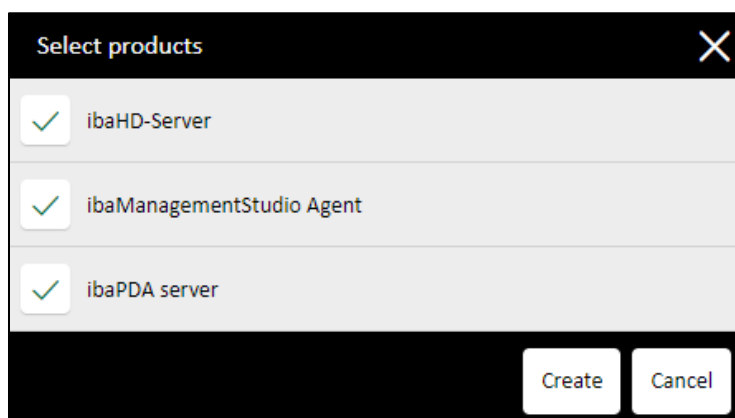
- **ibaManagementStudio Server status application:** The default repository path is shown in the text box if no custom repository path is set.

⚙ General	⚙ Settings	📄 Log
General		
File repository:	C:\ProgramData\iba\ibaManagementStudio\Server\Storage\Persisted	