

Release Notes

for Perfion Core Client

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Created by: Perfion Development Team

Perfion
Niels Jernes Vej 8
9220 Aalborg, Denmark
+45 70 26 26 80
www.perfion.com



Main Enhancements of Perfion Core 2022-R1 (5.0.0)

This chapter highlights the most important changes, introduced in Perfion Core 2022-R1 (5.0.0):

- Multiple languages in grid
- Read only features
- View specified by context
- Access to Feature Data as normal user
- Action package
- API security
- AD integration / single signon

Multiple languages in grid

With multiple languages in grid, you can now see, edit, and translate localized feature values directly in grid.

As always, the grid shows values in the user's base language. Via the language button in the toolbar, additional languages from the user's profile can be added. All fields can be edited individually, naturally with respect to permissions.

The screenshot displays the Perfion Core 2022-R1 (5.0.0) Administration interface. The main window shows a 'Products' grid with columns for Product, Image, Item Name (en), Item Name (de), and Description (en). A language selection dropdown is open, showing options for English, Dutch, and German. The grid contains three product entries:

| Product | Image | Item Name (en) | Item Name (de) | Description (en) | Description (de) |
|------------|-------|----------------|----------------|--|--|
| 13689 | | Giga 5 | Giga 5 | GIGA 5 sets a new standard in performance, aesthetics and perfects the coffee machine segment. Professional technology has found its way into the homes of people who demand the highest standards. With power of two grinders, two heating systems and two pumps it produces two coffee specialties at once, providing an unprecedented range of specialties and fulfilling the coffee lover's every dream. | |
| TE717209RW | | EQ7 | EQ7 | Siemens TE717209RW is a beautiful piano black fully automatic machine from Siemens EQ7 series. With just a tap you make cap latte, espresso or coffee. This model has the smart and practical "My Coffee" function so you can configure the relationship between milk and espresso in your drink - you could choose up to 80% coffee, so you have extra power and heat your milk drink! The grinder automatically adjusts itself to the coffee blend you use. And the individual programming ensures that up to 6 people can have their own coffee profile, where each button is programmed after the personal wishes. | Dieses Modell verfügt über die intelligente und praktische „My Coffee“-Funktion, mit der Sie das Verhältnis zwischen Milch und Espresso in Ihrem Getränk konfigurieren können – Sie können also bis zu 80 % Kaffee wählen. Sie haben extra Power und erhitzen Ihr Milchgetränk! Das Mahlwerk stellt sich automatisch auf die von Ihnen verwendete Kaffeemischung ein. Und die individuelle Programmierung sorgt dafür, dass bis zu 6 Personen ihr eigenes Kaffeeprofil haben können, bei dem jede Taste nach den persönlichen Wünschen programmiert wird. |
| T1907201RW | | EQ9 | EQ9 | Siemens T1907201RW EQ9 is a technological marvel - an entirely new fully automatic espresso machine from Siemens autumn 2015! This is EQ9-range topping, as an exclusive two bean containers! Siemens has given EQ9 series a new stylish look and a host of technical features. T1907201RW EQ9 have got a big, brilliant TFT color display where all coffee drinks can be selected - you just turn the large rotary wheels under the machine's display. The machine has a sleek exterior in stainless steel, which fits perfectly in any home. Uniquely, Siemens choice to give the two top models in EQ9 series Barista Mode, which gives you even more features and options to customize your coffee or milk drink! Barista Mode allows you to select the temperature, the percentage of milk to be in power and intensity in each cup! You will have ample opportunity to customize your coffee, so it fits perfectly to your liking. Coffee and milk outlet is in one place, giving you OneTouch DoubleCup - this means the | Siemens T1907201RW EQ9 ist ein Wunderwerk der Technik - eine völlig neue vollautomatische Espressomaschine von Siemens im Herbst 2015! Dies ist das EQ9-Spitzenmodell, exklusive mit zwei Kaffeebohnenbehältern! Siemens präsentiert die EQ9 Serie in einem neuen eleganten Look und einer Vielzahl von neuen technischen Funktionen. T1907201RW EQ9 hat einen großen, brillanten TFT-Farbdisplay, über den alle Kaffeegetränke ausgewählt werden können. Die Maschine verfügt über ein schlankes Gehäuse in Edelstahl, die perfekt in jede Wohnung passt. Einzigartig ist die Auswahl die Siemens mit den beiden Top-Modellen in der EQ9 Serie der Barista-Modus bietet - noch mehr Funktionen und Optionen für Ihren Kaffee oder Ihre Milch! Im Barista-Modus können Sie die Temperatur zu wählen, der Milchanteil, die Stärke und Intensität in jeder Tasse! Sie werden reichlich Gelegenheit haben, Ihren Kaffee so zu wählen, dass er perfekt nach Ihren Wünschen ist. Kaffee und Milchauslauf sind nebeneinander, das bedeutet, |

The interface also shows a sidebar with a category tree (Coffee & Tea, Accessories, Coffee Machines, Coffee Makers, Cups, Thermo Jugs, Cooking, Pots and pans, Lighting, Wash / Flood lights) and a bottom navigation bar with links to Dashboard, Products, Catalogs, Website, Channels, Images, Files, Actions, Feature Data, and Features.

Read only features

The new read only property can be activated on any feature. When activated, the feature is locked for editing in the windows client for all users including administrators. Values can now only be edited “programmatically” via:

- API inserts/updates
- “External” imports (read only values cannot be edited via imports done by users in the client)
- Actions
- Triggers

| Images | Approved Image | Image Category (en) | Tags (en) | Asset Valid Until | Modified date | Stored date | Height[dpj] | Height[pv] | Size[kb] | Width[dpj] | Width[pv] | Filename |
|--------|-------------------------------------|---------------------|---------------------|-------------------|---------------|-------------|-------------|------------|----------|------------|-----------|--------------------------|
| | <input checked="" type="checkbox"/> | Product Specific | Serving | 2022-12-31 | 2016-10-28 | 2016-10-28 | 40,5892 | 498 | 1070 | 40,5892 | 1000 | 1101025_CLS_(1000x1000) |
| | <input checked="" type="checkbox"/> | Product Specific | Serving | 2022-12-31 | 2016-10-28 | 2016-10-28 | 86,69019 | 683 | 1548 | 86,69019 | 1024 | 1102018 |
| | <input checked="" type="checkbox"/> | Product Specific | Cast Iron | 2022-12-31 | 2016-10-28 | 2016-10-28 | 100 | 425 | 512 | 100 | 283 | 1102291 |
| | <input checked="" type="checkbox"/> | Product Specific | Serving | 2022-03-25 | 2016-10-28 | 2016-10-28 | 73,5584 | 1024 | 1359 | 73,5584 | 749 | 1102618 |
| | <input checked="" type="checkbox"/> | Product Specific | Cast Iron Cooking | 2022-02-25 | 2016-10-28 | 2016-10-28 | 72 | 460 | 1024 | 72 | 608 | 1102625 |
| | <input checked="" type="checkbox"/> | Product Specific | Cast Iron Cooking | 2022-12-31 | 2016-10-28 | 2016-10-28 | 100 | 384 | 512 | 100 | 283 | 1102691 |
| | <input checked="" type="checkbox"/> | Product Specific | Cast Iron Cooking | 2022-12-31 | 2016-10-28 | 2016-10-28 | 100 | 399 | 512 | 100 | 283 | 1102891 |
| | <input checked="" type="checkbox"/> | Product Specific | Bodum Chambord | 2022-12-31 | 2016-10-28 | 2016-10-28 | 191 | 1024 | 51 | 191 | 515 | Chambord Lifestyle 2 |
| | <input checked="" type="checkbox"/> | Product Specific | Bodum Chambord | 2022-12-31 | 2016-10-28 | 2016-10-28 | 175 | 1024 | 82 | 175 | 1019 | Chambord Lifestyle |
| | <input checked="" type="checkbox"/> | Product Specific | Storage | 2022-12-31 | 2016-10-28 | 2016-10-28 | 38,862 | 651 | 416 | 38,862 | 1000 | LE1270210R15_(1000x1000) |
| | <input checked="" type="checkbox"/> | Product Specific | Storage | 2022-12-31 | 2016-10-28 | 2016-10-28 | 30,4292 | 1000 | 358 | 30,4292 | 1000 | LE1270217R15_(1000x1000) |
| | <input checked="" type="checkbox"/> | Product Specific | Cooking | 2022-12-31 | 2016-10-28 | 2016-10-28 | 46,8122 | 750 | 882 | 46,8122 | 1000 | LE1270221R15_(1000x1000) |

View specified by context

It is now possible for administrators to make sure a specific view is loaded in these situations:

- When a dashboard widget is clicked (view is specified in widget setup)
- When a left-side search categorizer is clicked (view is specified in select-part of API query)
- When a filter is applied in a grid (view is specified in select-part of API query)

The screenshot shows the Perflon administration interface. On the left, there is a dashboard widget titled "Products online - # of products online i..." displaying a total count of 96. Below it, another widget titled "SYNC to web DISABLED - # of online pr..." displays a total count of 0. The main area shows a product grid with columns for Product, Image, Item Name (en), Auto Categorize, Website (en), and Published. The grid lists several coffee makers, including models like Giga 5, EQ7, EQ9, and Chambord Coffee maker in various capacities.

View specified by dashboard widget

The screenshot shows the Perflon administration interface with a product grid. The grid is titled "Products" and has a filter applied: "Defined by filter". The grid columns are Product, Item Name (en), Image, and Status. The grid lists several Bodum Canteen 0.2 products with a status of "Review". The left sidebar shows a search categorizer with a tree view of categories, including "Coffee & Tea", "Accessories", "Coffee Machines", "Coffee Makers", "Cups", "Thermo Jugs", "Cooking", "Pots and pans", "Lighting", and "Wash / Flood lights".

View defined by filter in grid

Access to Feature Data as normal user

Normal users (= users who are not super users or administrators) can now be granted access to Feature Data via a role. This enables content editors to manage value lists (colors, materials, country lists, etc.) in a more purpose-built interface. It also allows content editors to benefit from multiple languages in grid as this also works in Feature Data.

In Feature Data, the content editor will be able to see features (left side) she has at least read-access to. In the right-side grid, the content editor will be able to create/delete items and manage values according to user rights.

| Color (en) | Color (dan) | Color (de) |
|--------------|-------------|------------|
| Aluminium | aluminium | Aluminium |
| Aqua Blue | Aqua Blå | Türkis |
| Basil | Basilikum | Basilikum |
| Black | Sort | Schwarz |
| Blue | Blå | Blau |
| Brown | Brun | Braun |
| Chalk | Kridt | Kreide |
| Cherry | Kirsebaer | Kirschrot |
| Chrome | Krom | Chrome |
| Cinnamon | Kanel | Zimt |
| Clear | Klar | Klar |
| Cloud | Cloud | Trüb |
| Coastal Blue | (No value) | test1 |
| Copper | Kobber | Kupfer |
| Corall | Corall | Korall |
| Dark Blue | Mørkeblå | Dunkelblau |
| Deep Teal | (No value) | test2 |
| Flint | (No value) | test3 |
| Fuchsia | Fuchsia | Fuchsia |
| Gray | Grå | Grau |
| Green | Grøn | Grün |

Actions Package

Several improvements have been made to the Actions functionality in Perfon. The most important additions are:

- New commands:
 - JOIN.INNER, JOIN.LEFT, JOIN.FULL
 - WRITE.FILE
 - SEND.MAIL
 - REPORT
- Include data from an Action in Perfon Reports
- Use external dll/library in EXECUTE.SCRIPT
- Filter and Order at Select commands
- Execute action from the Perfon API

API Security

It is now possible to execute API queries in a specific user context, which enforces the user permission of that particular user. This is useful for ensuring that e.g., a specific third-party system can only view or edit a restricted amount of data.

Authentication is possible via:

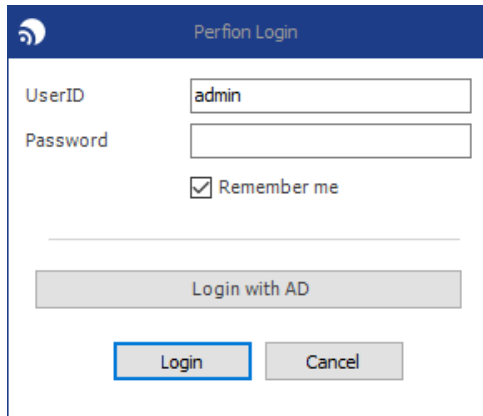
- Basic authorization

- Bearer token
- Azure AD bearer token

For backwards compatibility, it is also still possible to execute queries without user context.

Active Directory Integration

In this version of Perfion, the ability to manage users centrally from a Microsoft Active Directory has been added. Users with the correct role assignment in AD will be able to log into Perfion without having been explicitly created in the Perfion database, and single sign-on via regular Microsoft authentication (including multi-factor authentication) is possible.



The image shows a 'Perfion Login' dialog box. It has a blue header with the Perfion logo and the text 'Perfion Login'. Below the header, there are two input fields: 'UserID' with the value 'admin' and 'Password'. A 'Remember me' checkbox is checked. Below these fields is a horizontal line, followed by a grey button labeled 'Login with AD'. At the bottom, there are two buttons: 'Login' (highlighted with a blue border) and 'Cancel'.

Changes in Perfion Core 2022-R1-SR4 (5.0.11)

Bugs:

| Issue ID | Title | Description |
|-----------------|--|---|
| DEV-7164 | Bugfix of sub-reports not showing images correct | When Perfion image control is used in a subreport the image is not shown. This has been fixed so both Windows client view/preview report and Application Server view report functions. |
| DEV-7119 | Tools to update preview images | A separate tool, similar to the functionality implemented in 5.1.1 (DEV-6961) has been made, to be able to run on 5.0 installations. |

Changes in Perfion Core 2022-R1-SR4 (5.0.10)

Bugs:

| Issue ID | Title | Description |
|-----------------|---|--|
| DEV-6705 | Roles in cache did not refresh when adding new users and groups | The internal cache caches among other data the roles each user holds. This part of the cache was not refreshed when adding new users and/or groups to Perfion. This mainly affects the web client since the windows client gets a new cache on every start up. |

Changes in Perfion Core 2022-R1-SR4 (5.0.9)

Bugs:

| Issue ID | Title | Description |
|-----------------|--|---|
| DEV-6552 | Not possible to change language permission for Active Directory user | It was possible to change language permission for Active Directory users. Now language permissions can only be changed in Active Directory. |
| DEV-6538 | Licensing now allows Readers to use Editor seats if available | Previously, licensing would limit users to log into Perfion if the number of active users with reader permissions was more than licensed. This would happen even though editor licenses were available. This has now been fixed so that readers may use editor licenses, if available. |
| DEV-6532 | Grid drag and drop functionality updated | Grid drag and drop functionality updated to allow moving of item in between different hierarchy levels for those cases where items have enabled RSO (related sortable order) and when Family feature is not enabled. This functionality was removed in previous version of Perfion but is now restored. |
| DEV-6478 | New media web services now supported by EC API | The File- and Image-service URLs created by the ECommerce API have up until now been in the form: |

| | | |
|-----------------|--|---|
| | | <p>http://<server>:<port>/perfion/<image file>.aspx?id=<guid for image/file>&<more parameters></p> <p>We have, however, introduced new end points for both the file- and image-service using URLs in the form:</p> <p>http://<server>:<port>/<image>/<guid for image/file>/<name of image/file>?<more parameters></p> <p>The ECommerce API will from this version output the new format if the ImageServiceUrl-setting (or FileServiceUrl-setting) does not include ".aspx".</p> |
| DEV-6252 | Main grid editor | Fix to avoid random cell selection. After the editor is closed, the main grid set focus to at random cell. |
| DEV-6187 | Bugfix in main grid of proper set of focused cell after edit if grid contains related values/remotes | Fix in main grid containing related values/remotes of keeping focus on edited cell after edit completed. |
| DEV-6598 | Users added to groups would not have their rights updated in built-in cache | <p>When creating a new user or changing the group membership of a user, the internal cache would not be refreshed when it comes to permissions. The windows client regularly forces a cache-refresh due to many other reasons (a restart would also do), but the web-client does refresh very often, meaning that the error was more likely to be met here.</p> <p>This issue has now been fixed, so that modifying a user or changing the memberships of a user will refresh the builtin cache meaning that the web client (and the windows client) immediately reflects the changes and hereby shows correct permissions.</p> |

Changes in Perfion Core 2022-R1-SR3 (5.0.8)

Bugs:

| Issue ID | Title | Description |
|-----------------|---|--|
| DEV-6309 | Selectable items were incorrectly selectable | When setting up security so that the user is prevented to select certain values of a selectable feature, would not be prevented in the Web Client. This has been resolved. |
| DEV-6313 | Perfion API - Using ID in a Where clause is fixed | In some mere complex Where clauses with a id='ID' throw an error. The id='ID' is used in some reports. |
| DEV-6303 | View Relations did not work for multivalue localizables | Picking "View Relations" for an item representing a multi value localizable would cause previous versions of Perfion to throw a "null value exception". This has been fixed. |

| | | |
|-----------------|--|--|
| DEV-6280 | Better user synchronization between Active Directory and Perfion | It was not possible to add non-localizable to users. Now there is created a new group in Active Directory for non-localizable. Disabled users in Active Directory were not disabled in Perfion. Now inactive users are synced when opening Users and Groups settings. |
| DEV-6239 | Active Directory cache not possible to access | Not possible to log in because it could not find part of the token cache file. Now it automatically creates the path when logging in. |
| DEV-6212 | New media web services | There were added 4 new media web services. The new web services are equivalent to existing web media services and the most significant difference is that the new services can be used to get binaries using their name with extension instead of using web service end point. Below are the old media web services compared to the new web services: /File.aspx?id=<binaryId> => /file/<binaryId>/fileName.zip /Image.aspx?id=<binaryId> => /image/<binaryId>/imageName.jpg /ImageW.aspx?id=<binaryId> => /wimage/<binaryId>/imageName.jpg /ImageUncached.aspx?id=<binaryId> => /uimage/<binaryId>/imageName.jpg |
| DEV-6210 | Perfion API - Order of features in Custom View | The order of Features in Custom View is changed to follow the order of the listed features and not only via the configuration order. |
| DEV-6197 | Rich Text editor updated to correctly handle new lines | The Rich Text editor was handling new lines incorrectly by making a new line using HTML BR tag when Enter key is pressed and making a new line using HTML P tag when Shift + Enter keys are pressed. The functionality of how the creation of the new line is done was switched so that Enter would make a new line using a new paragraph (HTML P tag) and Shift + Enter would make a new line using a line break (HTML BR tag). |
| DEV-6195 | Rich Text editor updated to correctly handle text underline | Rich Text editor did not show text underline correctly. It would add the class which should enable text underline, but the rendering of the underline did not work. This issue was fixed by changing the method how the underline is handled. |
| DEV-6133 | Report output dialog: enlarge of multi selector dialog | When having selectable parameters in the report output dialog the popup dialog to choose parameter values was very small and always needed dragging to use. The default size has been enlarged to avoid need for manual resize. |
| DEV-6132 | In grid update related values/remote column widths on data arrival | Related values and remotes get data fetched asynchronous meaning data arrives after initial draw of grid. This means initial column width can be too small if e.g., large text data exists. This has been fixed so when data arrives the column widths are adjusted for proper size. |

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|-----------------|---|---|
| DEV-6060 | Default popup size for Selectable popups is changed | Default popup size for non-multiple selectable popups is changed from 800x260 to 550x400. |
| DEV-6058 | Unique values with Staged items | A bug is fixed in The Unique values when the Stage is activated, and items has empty stage value. |
| DEV-6056 | Bugfix of selectable control not loading with latest data | When selecting a selectable value in e.g., grid after adding, editing, deleting the selectable feature values the latest changes where not reflected in the selectable list of values. The fix reloads data when showing for both single and multi-value selectable controls. |
| DEV-5748 | Grid item Drag & Drop handling updated | Drag & Drop functionality in grid was updated by allowing to change the hierarchy for the items when Show Family option is enabled. Drag & Drop functionality was also updated to not allow move operations when items have related sort order in a categorizer view and to handle the change of item related order so that item hierarchy is not affected. |

Features:

| Issue ID | Title | Description |
|-----------------|--|--|
| DEV-6177 | Report parameters - empty where clause parameter | If a report parameter is empty in the where clause, the where clause is ignored. |

Changes in Perfion Core 2022-R1-SR2 (5.0.7)

Bugs:

| Issue ID | Title | Description |
|-----------------|---|---|
| DEV-6297 | Client freeze / red cross across screen | After a previous change, an error was introduced in which the application could hit an exception where the client became unresponsive (with a large red cross filling the screen). These scenarios are now avoided. |

Changes in Perfion Core 2022-R1-SR2 (5.0.6)

Important info: From this version on it is required that the database user, used to log in to the database connected to Perfion, has the **“View Server State”-right**. For information on how to give a user this access setup please see [here](#).

Bugs:

| Issue ID | Title | Description |
|-----------------|--|--|
| DEV-6241 | Possible to change order of user language inside Perfion when using AD | It was not possible to set the order of user languages inside Perfion, because they got overwritten by AD integration. |

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|-----------------|---|--|
| | | Perfion now correctly remembers the order. |
| DEV-6226 | Various media service binary handling improvements | The media service has been updated with various binary handling improvements which in certain cases could lead to better performance when serving binaries. |
| DEV-6220 | Internal Perfion Cache now contains info on all users and roles | That the cache now contains Role-info on all users meaning that a change of user, as it often happens in the WebClient, does no longer need a refresh of the cache. In other words, this change will, for Perfion-installations with large configurations, make the cache work faster. Since the user never changes in the Windows client this change has most effect on the WebClient. |
| DEV-4769 | The check for the need of a refresh has been improved | Both Windows- and Web-Client regularly check the need for an update of its internal cache. That check is usually fast (<100 ms), but on huge configurations it could take up half a second and even more. This check is now utilizing two internal built-in tables in SQL Server whenever possible leaving the original "Checksum"-way to very few checks. In other words: The performance of this check has been greatly improved for large configurations. |

Changes in Perfion Core 2022-R1-SR2 (5.0.4)

Bugs:

| Issue ID | Title | Description |
|-----------------|--|---|
| DEV-6203 | Report with action execution | When running an export in a report with an ActionId the export will only execute the action and let the action control the export. |
| DEV-6200 | ItemEditor erroneously hid tab pages when base feature was set to readonly in its Security Group | ItemEditor erroneously hid tab pages created based on Security Groups in which the Security Group did not give Edit permission (i.e., permission to edit base values). This has been fixed to instead use permission to read (or edit) the feature values in the group. Simple work around was to use Top View Groups. |
| DEV-6191 | Feature definition validation updated to allow saving remotes as multivalues | Feature definition validation did not allow saving remote features if Allow Multiple data property was selected. Even though remotes do not support multivalues, the data property Allow Multiple was used by Perfion when processing the remote data. The multivalue validation for remotes were removed in order to allow the special remote handling. Note that when saving remotes as multivalues they will still be treated as single values in Perfion. |
| DEV-6144 | Bugfix in Table Designer of allowing auto size of height on fixed table width | When a fixed width of a table is set in Table Designer and no fixed height is set the height should auto size to fit text content breaking lines. This is now fixed. |

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|-----------------|---|---|
| DEV-6125 | Application Server fails to run import when running in context of non-privileged user | If the Perfion Application Server was begin run in the context of a non-privileged user account, it could fail to run an import due to missing permissions to store temporary files needed for the import. This has been fixed; the application now uses the Windows temp folder. |
| DEV-2563 | Section change handling fixed | In Perfion application one may have many Sections and there were some issues if one would select several Sections in a row in a rapid succession. The same issue could be experienced when loading the Perfion application and trying to change some Sections before the application is fully loaded. In such cases the last selected Section could go out of sync in comparison to what is shown in the grid, and one may need to restart Perfion application in order to fix it. This issue has been fixed so that change of Sections is handled correctly. |

Changes in Perfion Core 2022-R1-SR1 (5.0.3)

Bugs:

| Issue ID | Title | Description |
|-----------------|--|---|
| DEV-6179 | Feature data selectable binary import fix | The import of feature data using binary selectable features didn't work correctly. |
| DEV-6180 | Selectable localizable number and date type feature handling fix | Selectable localizable number and date type features were not handled correctly in the grid. When trying to assign a new value for such feature, then the error message was shown. This issue was fixed. |
| DEV-6083 | Localizable binary saving issue fixed | Binaries could not be saved from the grid if binary feature was localizable. This issue was fixed. |
| DEV-6031 | Bugfix of new created Perfion sub report not showing correct in report | When a Perfion subreport was created in a report - either by setting sub report template ID direct or by creating a new sub report - the sub report was not shown when double clicking. It was necessary to save the report and restart the designer to proper show. This has been fixed. |
| DEV-5972 | Feature data import item ID validation restored | The item ID validation when importing feature data was accidentally disabled in previous release. Item ID validation was restored and should correctly identify the items which have been incorrectly defined in the import. |
| DEV-5894 | View handling in grid | The views in the grid were not working correctly. If the base feature configuration was updated, then these changes could not be used with views which use feature configuration. This issue was fixed. |
| DEV-5849 | Feature data import with 2-state boolean values | Feature data import did not allow to change 2-state boolean values from True to False. This issue has been fixed. |

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| DEV-5845 | Actions - Select.Fixedwidth Data type specification | The Action command Select.Fixedwidth the data type of the columns is detected automatically. It is now possible to specify the data type by adding S, N or D (*S*tring, *N*umber, *D*ate) in the comma separated list like 22*S,*32*D,*60*N,*75 which will enforce the first column as a string. |
| DEV-5834 | Bugfix of ReportsMoveToDB destroying parameters | When ReportsMoveToDB was run on publication data containing lookup parameters the lookup parameters were error prone after the move. This is now solved. |
| DEV-5833 | Bugfix in handling publication lookup from parameters | In publication dialog added proper switch between Simple and Advanced mode, button name was mixed around. In publication dialog added proper handling of lookup from parameter (Perfion.LookUp.FromParameter) in publication parameters, parameters were not saved correct, empty value was not handled correct, choice parameter name ending with a number did not function, choice parameter was not hidden/treated correct. |
| DEV-5828 | Image scaling quality improvements | Image scaling in Perfion had some issues with certain type of images which could lead to image aliasing effect and Moiré artefacts. The scaling process was updated to minimize these issues by using different scaling procedures. |
| DEV-5820 | Bugfix when deselecting multivalue parameter in range chooser | Ensure proper deselect of selected multivalue parameter when using range chooser in report dialog. |
| DEV-5816 | Action - SELECT.XML with Namespaces | The SELECT.XML now support Namespaces in e.g., XPath strings. The Default Namespace is "ns" and this can be changed via the Parameter @DefaultNameSpacePrefix. |
| DEV-5785 | Bugfix of different output between Table Designer/Report output and Report xml export output | Fix of ensuring same report table cell merge behavior in report xml export as in report and Table Designer. Also fix to error of Table Designer not treating item value correct - now feature ID _Item is properly converted to base feature ID. |
| DEV-5738 | Settings window updated not to hide description of Item Triggers parameter | In Settings window General tab the Item Triggers parameter description was too long when using French and part of the text was hiding behind the Enable/Disable buttons. The GUI controls were updated to allow wider space for Item Triggers description. |
| DEV-5683 | Binary handling optimized | There were done various optimizations to increase binary handling performance in Perfion especially focusing on binary upload when using feature data import. |
| DEV-5658 | Image color handling fixed | Some images when loaded to Perfion were not converting colors correctly e.g., when image is loaded from PSD file. The image handler was updated to fix this issue. |
| DEV-5591 | Feature data import selectable feature validation updated | Feature data import updated by changing how the selectable feature validation works. Before the change it was not allowed to delete selectable feature values if selectable feature |

| | | |
|-----------------|---|--|
| | | validation was enabled. The update allows using an empty value in the import data together with import method "Delete existing values when missing in import" to clear already set selectable feature values. |
| DEV-5586 | Bugfix of updating security/access after grid line update | When updating a grid line the security/access of the updated line/record is now also refreshed/updated. |
| DEV-5569 | Image color handling fixed | Some images when loaded to Perfion were not converting colors correctly e.g., when image is loaded from EPS file. The image handler was updated to fix this issue. |
| DEV-5487 | Bugfix in reports when using related value features not part of configuration | When report superquery contains related value features that are not part of configuration, the related values are now properly used and shown as for other feature types. |
| DEV-5472 | Saving file from Item Editor fixed to include the file extension | When saving files from Item Editor the files were saved without extension. This issue was fixed. |
| DEV-5451 | Cell drawing improved to better handle errors | Cell drawing in the grid could fail with some error which typically resulted in the failure of the whole grid which would show red cross and would require restart of Perfion to recover. This issue was solved by handling the cell drawing errors independently per cell and in case there is any it will allow showing an error for that cell including error message with what went wrong. This cell drawing error handling is generic and will work with any types of features, e.g., not just remote features. |
| DEV-3016 | Grid freeze column functionality fixed | Grid did not handle the data correctly when using column freeze feature. The column next to the frozen column would be rendered incorrectly by showing the content from the frozen column. This issue was fixed and now all columns are rendered to show the correct content. |

Features:

| Issue ID | Title | Description |
|-----------------|--|--|
| DEV-6039 | Loader added to user settings when Active Directory is enabled | When leaving user settings with Active Directory integration enabled it could hang and look like the client is frozen. Added a loader to indicate that the client is working on saving the settings to your Active Directory. |
| DEV-5724 | New categorizer filter feature of setting inserted item feature values | When a section has a categorizer using a search feature it is possible in the where clause of the query expression to configure which create values are to be used when inserting new items. |
| DEV-4331 | Action - GET.FILELIST from subfolders | It is now possible to get files from subfolders via GET.FILELIST in Actions. |

Changes in Perfion Core 2022-R1 (5.0.2)

Bugs:

| Issue ID | Title | Description |
|-----------------|----------------------------|--|
| DEV-6081 | Bugfix In Action Scripting | A bug in Namespace/Using is fixed in Action Scripting. |

Changes in Perfion Core 2022-R1 (5.0.1)

Bugs:

| Issue ID | Title | Description |
|-----------------|---|---|
| DEV-6028 | Token generation issue | The token generator that generates tokens for the Perfion API did not generate tokens with correct expiry date. This meant that the tokens did not work when using specific time zones. This has been resolved |
| DEV-6020 | The Item Creator did not work when multi value, localizable feature was used as dimension | The Item Creator did not work when a multi value, localizable feature was used as dimension. Here you got an error. Furthermore the "greying out" of already existing items did not work. This meant, that it was possible to create items for which the combination already existed. Both issues have been fixed. |
| DEV-5973 | Error when opening Item Trigger window | The Item Trigger editor window throws an error if the Trigger type is a "When Value is updated in any feature" or "When Item Is Created". This has been fixed so triggers are now shown. |
| DEV-5971 | Perfion API Update error | When updating an item with the Perfion API, updating a base value of a Multivalue, Localizable feature would delete the value instead. This has been fixed |
| DEV-5349 | Feature data import updated to fix the issue with unique value validation | The feature data import used unique value validation for _parent column when the key feature in import data had Unique values data property. The _parent column is used to reference existing or create missing values, so duplicate values in this column are not actually duplicates and thus should not be detected during unique value validation. This issue was fixed by excluding _parent column from unique value validation scope. |

Changes in Perfion Core 2022-R1 (5.0.0)

Bugs:

| Issue ID | Title | Description |
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| DEV-5864 | Deployment of groups could give error message | When deploying a feature group using multiple languages for matching captions and some feature group in target Perfion matched more than one of these captions, then you in previous versions of Perfion erroneously would get a |

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| | | "Deployment-error" stating that multiple groups were matched. This has been fixed. |
| DEV-5777 | Application Server DLL missing | Some special job types regarding OData failed, because of a missing DLL file. This was now included in the Application Server installation package. |
| DEV-5673 | Dashboard filters - Having-clause | The Having-clause can now be used in the Dashboard filters. |
| DEV-5622 | User management - save user password | User management was not always saving the user password correctly, especially if the password was set for existing user and then user properties were updated at the same time. This issue was fixed. |
| DEV-5562 | View Group sorting | When the selected View Group was moved to a new position the selection of that View Group did not follow and consequential messing up any further sorting process. This issue was fixed. |
| DEV-5531 | Transferring parameters to sub-reports | Parameters from main report to sub-reports are now transferred correctly, i.e., when running a report binding of parameters are done - this did not previously function. Furthermore, parameter data source is properly set when opening report using parameters - previously report data source for lookup parameters was null when editing parameter. |
| DEV-5527 | Item Triggers - Validation added | Validation of Language in localizable features is added to Item Trigger activities. |
| DEV-5517 | Item Triggers - Part of Application Server could break down | The part of the Application Server running triggered actions could unexpectedly shut down. That meant, that all actions that should have been run "now" instead were queued and hereby first run after a restart of the Application Server. The issue has now been fixed. The cause of this was that the application server at some point were not able to reach the SQL Server. |
| DEV-5514 | Reports - Show sub-report on double-click | When using a Perfion sub-report double clicking the sub-report now opens proper Perfion sub-report instead of opening a new empty report. Further it is ensured the Report Designer always opens on top - previous sometimes the Designer was opened and hidden behind the Perfion client. |
| DEV-5504 | Resizing non-Perfion images in Report Designer | When non-Perfion (non-database) images was resized in Report Designer the image was not properly sized, different error according to fit type used. Issue was present for both plain images and url images and is now solved. |
| DEV-5466 | Web Client could erroneously mix permits among users | The Web Client could sometimes mix permits among users. This was not an issue with the Web Client but with the internal cache in Perfion API behind it. This issue has been resolved. |

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| DEV-5457 | Item Triggers - Restore items from the Recycle Bin | It is now possible to restore items from the Recycle Bin when Item Triggers is enabled. In some cases, the restoring failed if the Item Triggers reacted on deleting features. |
| DEV-5448 | It was possible to create two features with the same name | In previous versions of Perfion the subtle handling of collations in SQL Server did allow users to create same-named features, or rather, feature names that were the same when ignoring case sensitivity. This has been fixed. |
| DEV-5395 | Using report parameters during publish | When using one click publications with report parameters, the parameter values changed by the user when executing the publish were not transferred to the reports using the parameters. Also, when defining report parameters for a one click publication update of parameters it was not done properly; i.e. when updating/deleting parameters the update was not properly done before a restart of the application. These issues are now fixed. |
| DEV-5292 | Table Designer - Never implemented option removed | The default queries auto generated by the Table Designer used the option "OrderFeaturesBySelection". This query option has never been implemented, so using it had no effect. It has been removed. |
| DEV-5275 | Item Triggers and Actions | An Action is called with a new table "Coalesced". The table contains a coalesce of the tables "New" and "Previous" |
| DEV-5274 | Item Triggers - Explicit image | It is now possible to select an Explicit Image in some of the Item Trigger types like "When value is updated in specific feature". |
| DEV-5254 | Restore image value did not work after Copy-Paste of image | When copy/pasting an image base value from a selector to an image cell value in the grid holding the selector (or the other way around) it either did not do anything or caused a data integrity problem. This has been fixed. |
| DEV-5240 | Perfion API updated with possibility to retrieve information about its version | Perfion API updated with possibility to retrieve information about its version. You can get Perfion API version: <ul style="list-style-type: none"> • By calling a new Perfion API method GetVersion() • By using Perfion API SELECT Query option IncludeDebugInfo • By calling Perfion API GetVersion query |
| DEV-5236 | A few feature names did not work well internally in Perfion | An error in the internal caches prevented some "specially named" features to be found when looked up in internal cache. The error happened only for features named using some special combinations of letters. Combinations that meant something special for the current culture. An example is the name "StyringViaApp". The two a's is in the danish culture was not understood as two times the letter "a" but rather the single letter "å", which meant the above feature would not be found in cache and, as an example, could not be used in a From-clause. Issue has been fixed. |

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| DEV-5141 | Item Triggers - 2-state boolean | It is now possible to use 2-state booleans with value False in Item Triggers. |
| DEV-3044 | ECommerce API: When asking for modified products, variants will be considered | <p>In previous versions of Perfion, when using any of the "Modified"-parameters on, for example, the GetProducts-method, only the Products themselves were considered. Any "timestamp-matching" variant was not taken into consideration.</p> <p>Now variants are also considered so that if any variant on some product is matching the "Modified"-parameters, this will make its associated product to be fetched.</p> <p>Note: When one or more variants this way make some product part of the GetProducts-result, the ECommerce API will still return the product in its entirety, that is, containing all its data including all variants both modified and unmodified.</p> <p>This affects only installations utilizing variants.</p> |
| DEV-127 | Vertical alignment in Perfion report table | It is now possible to use styles to vertical align elements in Perfion report tables. |
| DEV-17 | Localizable inheritance at different levels now works in API queries | If one language breaks inheritance enforced by another language an API query will now return proper values for the languages if queried at same time. |

Features:

| Issue ID | Title | Description |
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| DEV-5736 | Perfion API authentication | In previous versions, the Perfion API used custom HTTP headers to implement Basic authentication (username/password). The Perfion API also supported Bearer token authentication, based on tokens issued by the Perfion API itself. In addition to these options, the Perfion API now also supports authentication based on Bearer tokens issued by an Azure B2B Active Directory. |
| DEV-5668 | Perfion API update error | When sending an update query to the Perfion API, the API sometimes deleted incorrect localizable data. |
| DEV-5650 | Bulk-option removed from Delete API-query | The undocumented Bulk-option removed from Delete API-query. It could have some unwanted effects on database schema (indices and triggers). |
| DEV-5513 | Perfion API support for global custom views | The earlier versions of Perfion supported the custom views which are part of base feature configuration. The new update will support all views. Moreover, the custom views can now be defined using custom view item ID. |
| DEV-5475 | Item Triggers - Link features | Link features is added to Item Triggers. |

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| DEV-5455 | Item copying updated to support default values | Item copying procedure did not use feature default values. The procedure was updated to copy values and consider feature configuration setup to insert default values if they are defined and all conditions for use of default values are met. |
| DEV-5400 | Ecommerce API feature installation update | Ecommerce API feature installation was updated to use the dedicated security group 'EcommerceAPI' which will only be associated with features related to Ecommerce API. Before the update the Ecommerce API features were assigned to the first found security group. |
| DEV-5398 | A new culture parameter added to feature data import | The feature data import used the culture set up in the operating system when Number or Date type feature values was handled during the import. The import was updated with a new incoming import data culture parameter which allows to overwrite the culture from operating system with a custom chosen culture which matches the incoming data. |
| DEV-5381 | Top menu updated | The top menu in Perfion was refreshed by updating some button captions and removing the Monitor button. |
| DEV-5367 | A feature can now be set Read Only | <p>A feature can now be set to Read only. You would set a feature read only to avoid it being changed by accident. Normally you would make features set by Actions, Import, Perfion API or Triggers and Events to Read only, since their values are being automatically updated.</p> <p>Setting a feature Read only means that:</p> <ul style="list-style-type: none"> • A user cannot edit its value in neither the grid nor the Item Editor. Editors will be greyed out and disabled. • A user cannot import data that directly sets any Read only feature. • This also applies when running an import through the Application Server. <p>The restrictions apply even for Super Users and Administrators.</p> <p>A Read only feature can, of course, still have its value inserted/updated/deleted somehow. The following functionality is not affected by a feature being Read only, and works as always:</p> <ul style="list-style-type: none"> • When a feature is base value, its value may be edited even if Read only. • Triggers and events can still modify Read only features. • The Perfion API can still update Read only features. • When the importer is run through an action, the importer is allowed to modify Read only features. • This also applies to Actions run by Scheduler, Application Server and by a trigger. |

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| | | <ul style="list-style-type: none"> The Item Creator is not affected by a feature being Read only. When the Importer is called from outside Perfion it is allowed to modify Read only features. |
| DEV-5341 | Non-editable cells and editcontrols are now painted grey | <p>All non-editable cells in grid and editcontrols in Item Editor are now all painted grey regardless of why they are non-editable (remotes, missing permissions, inheritable etc.). The grey color used has been slightly lightened compared to previous versions.</p> <p>Furthermore, the color used for painting inheritable values is no longer a lighter grey compared to the text used for non-inheritable values. From now on the same (dark grey) color is used.</p> |
| DEV-5289 | Remote execution type option removed from Settings window | <p>There was removed an option to choose remote execution type used in grid from Settings window. Before one could choose Async or Parallel executions of remotes which are shown in the grid, but after this change all remotes will be executed using Async option. This also means that in those cases where Parallel remote execution was chosen by user it will be reset to use Async option.</p> |
| DEV-5229 | Sections administration from web | <p>Perfion Database Installer is now version 5.0.0.</p> <p>New column "VisibleInWeb" added to the Sections table.</p> |
| DEV-5219 | Perfion API now adheres to rules laid out in Permission-setup | <p>In previous versions of Perfion, the Perfion API simply let everyone with access to it to see all data in Perfion. In addition it would restrict all users not being neither Super User nor Admin from modifying.</p> <p>From this version, The Perfion API, as both clients have been for a while, adheres to the rules laid out with the Permissions-rules, you can set up in Perfion using Security Groups and Item Date-security. That goes for both Select, Update-, Insert and Delete-statements. Admins and Super Users may still see and update all data regardless of the setup, but now all other users are allowed access to the API as well. When they do, the Permissions set up in Perfion determines what they are allowed to Read and Update. Just as if they modified the data using one of the clients.</p> <p>ECommerce API are as well using the same rules as the Perfion API. If, for example, some feature is private for some user, then he/she cannot read it through the ECommerce API either.</p> <p>If a user has access to the Perfion API tool in the Windows Client, this will also only let him/her read/update the data as set up using the rules for Permissions.</p> |

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| | | <p>Some functionality in Perfion that exported data, as for example the XLIFF-export, did not adhere to the Permissions setup before. They do now.</p> <p>A few minor bugs in handling Permissions have additionally been fixed.</p> |
| DEV-5133 | SuperQuery missing support for rtfoutput attribute | SuperQuery used in ReportDesigner and Actions did not support the rtfoutput attribute (rtfoutput='html,style' or rtfoutput='html,inline') as in normal API Query. A fix has been made to implement this. |
| DEV-5052 | Actions - Order option | It is now possible to order results from Select commands. |
| DEV-5051 | Actions - Filter option | It is now possible to filter results from Select commands |
| DEV-5049 | New action command REPORT | The new action command REPORT will generate a report and make it possible to e.g., save the report as a file or send the report as an attachment in an email. See the Action documentation for more information. |
| DEV-5048 | Execute Action triggered from the API | It is possible to trigger an execution of an action from the API. The execution of the action is handled via the application server. |
| DEV-5047 | New action commands JOIN.INNER, JOIN.LEFT and JOIN.FULL | The new action commands JOIN.INNER, JOIN.LEFT and JOIN.FULL will Join two tables to a joined table result. The three join commands can join at a specified column from each table. See the Action documentation for more information. |
| DEV-5046 | New Action command WRITE.FILE | The new action command WRITE.FILE will write files and images from the Perfion data to a file-path. See the Action documentation for more information. |
| DEV-5045 | Report includes data tables from an Action | Reports called with an Action Id will now include the result tables from the Action as input for the Report. |
| DEV-5044 | New Action command SEND.MAIL | A new Action Command SEND.MAIL is added to the Action Commands. The command supports Secure Sockets Layer (SSL) to encrypt the connection and HTTP messages. See the Action documentation for more information. |
| DEV-5042 | Action - Execute action on error | It is possible to define an action to be executed if a command throws an error. |
| DEV-5041 | Action - Use variables in parameters, mapping and xpath | It is now possible to use variables to define parameters, mappings and xpaths in Actions. To use a parameter, use the syntax {=\$variableName} |
| DEV-5040 | Actions include external assembly/DLL | It is now possible to add external assembly/DLL files to Actions. This will make it possible to include third-party functionality to the scripting in Actions. See the documentation for more information. |
| DEV-3689 | Configuration can only be removed if empty | A feature configuration can now only be removed if the configuration is empty. |
| DEV-3561 | Enable Feature Data section for normal users | Feature Data section was enabled for normal user. The feature is controlled by roles which can be enabled for chosen users. |

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| DEV-3260 | Views added to the Dashboard Widget | It is possible to select a standard view, a group view, or a customized view to the Dashboard Widget. The selected view is used in the Grid opened via the widget. |
| DEV-2912 | License check added when calling the ECommerce API | License is now checked when calling the ECommerce API. Furthermore, a better error has been added when features required to use the ECommerce API have not been installed. |
| DEV-2590 | License check added when calling the ECommerce API | License is now checked when calling the ECommerce API. Furthermore, a better error has been added when features required to use the ECommerce API have not been installed. |
| DEV-861 | API value validating | The API validate for rejected values and will send an error message if the value validation fails. |
| DEV-584 | Possible to integrate Perfion with Active Directory | It is now possible to integrate with your Active Directory, so you only have user management in Active Directory. |
| DEV-541 | Remote query and connection handling improvements | Remote query and remote connection handling improved by updating GUI and functionality to be easier to use. Remote connection button added to the top Administration menu so that one could create remote connections directly. Support for a new SMTP type remote connection added. |
| DEV-340 | Context based views | Perfion view handling in grid improved by supporting context-based views. The default view can now be overwritten by views defined in filters and categorizer item queries. |
| DEV-334 | Multiple languages in grid | Possible to choose further languages than current user/session in grid for multiple show/editing. |