

Introduction to Release 11.7.0

MAIN NEW FEATURES:

This version enhances the OMNITRACKER by two new big features:

- Support for Internet Protocol version 6 (IPv6), and
- Dynamic MS Exchange Filter with relative date/time values

In addition to that several change requests and fixes for defects have been implemented.

NEW SYSTEM REQUIREMENTS

For all details regarding system requirements, please refer to <http://www.omnitacker.com/en/resources/system-requirements/>

- Minimum Server Version: 11.7.0
- Minimum Client Version: 11.7.0
- For web browsers a minimum resolution of 1280 x 1024 is recommended.

UPGRADE PROCEDURE:

Please note:

- If Oracle Database is used as backend for the OMNITRACKER server and if the "Multi Server Architecture" (MSA) feature is not used, the Oracle user must be granted execute permission for the "dbms_lock" package using the command:
GRANT EXECUTE ON SYS.dbms_lock to OT
 - Replace "OT" by the name of the Oracle user that is used by OMNITRACKER server.
 - If MSA is used, this permission has already been granted when setting up MSA; in that case, no change is required.
- Converting an OMNITRACKER database from a version earlier than OMNITRACKER V10.0 is going to take about 1-2 minutes per GB database size.
- Converting an OMNITRACKER database from a version earlier than OMNITRACKER V10.5.200 is going to take additional time to create new indices in the UserField tables.
- Direct conversion between 32-bit and 64-bit versions and vice versa is not supported. You have to uninstall the existing OMNITRACKER version beforehand.
- In the Web Gateway configuration, there is a new property "64-bit support". If both the Automation Interface installed on the web server and the IIS application pool of the Web Gateway are running in 64-bit mode this property must be unchecked to maintain a 32-bit version of the Web Gateway.
- Please be informed that you can improve our support if our support is informed about the current OMNITRACKER version you use. This can be reached by setting the flag "Yes, regularly inform OMNINET about the used OMNITRACKER version" in the "OMNITRACKER - InstallShield Wizard".
- The default value of a Boolean field created by scripting is initially set to "true". By additional scripting code it is possible to change the value to "false". To do this after the new field is saved use the method "TDefaultValue" of the "OtFieldDefinition" and set it to "false". Afterwards you have to save the "OtFieldDefinition" again.
- Please be informed that the conversion by OMNITRACKER does only OMNITRACKER specific transformations. This means that additional transformations based on the file type of the database cannot be done by the OMNITRACKER version conversion. In special if before as database an *.mdb file of the Office 97 version is used, OMNITRACKER cannot convert it to the mdb version of a current Office version (Microsoft Office 2016/2019). If you want to convert OMNITRACKER version as well as the used Access version, please convert the mdb database beforehand to the correct mdb version (Microsoft Access 2016/2019). How to do this can be verified for example in <http://allenbrown.com/ser-48.html>.

Before upgrading:

- Make sure to back up your OMNITRACKER database and the attachments directory.
- When also other infrastructure changes are done at the same time make sure that all needed changes are done (e.g. if changing Microsoft Access version make sure databases based on *.mdb file are converted to new Access version).

After upgrading:

- When starting the OMNITRACKER server for the first time after upgrading, do not stop the server again until the "Welcome to OMNITRACKER" message appears in the status panel. Otherwise, your database might become corrupted.
- OMNITRACKER can be used as soon as "Welcome to OMNITRACKER" appears in the "OMNITRACKER Service Control Panel" window.
- If you are using Oracle as your database server, you must recreate the database statistics after updating to the latest OMNITRACKER version.

WHEN INSTALLING THE WEB GATEWAY, PLEASE NOTE:

- If you are upgrading from Web Gateway version 10.6.x or older, you should uninstall your Web Gateway first before installing the new version. Please make sure to back up your configuration files. See update guide from version 10.7.0 for more details.

KNOWN ISSUES:

- Please be advised that Edge Browser does not support Windows Authentication in local sites, in URLs of kind "http://localhost" or "http://machinename".
- It is highly recommended to only handle memo fields of the same subtype in a script. Some methods and properties differ between memo fields of subtype "Formatted Text (old)" and "Formatted Text". Avoid interactions between both subtypes in order to prevent any problems this may cause. If interactions are necessary, decide for a consistent subtype.
- On computers on which .NET Framework 4.6.0 or 4.6.1 is installed, the Windows end user client ("WPF client") might crash when using dropdown lists or combo boxes. This happens only in very rare cases. This is a known problem in .NET 4.6.0/4.6.1; Microsoft has announced to fix this in .NET Framework 4.6.2. .NET framework 4.6.2 was released in August 2016.
- When using .NET Framework 4.7.x an error message like "The file '/OTWG/Login.aspx' has not been pre-compiled, and cannot be requested." might sporadically appear. This is based on a known bug within .NET Framework 4.7.x.
Details for this can be found here:
<https://techcommunity.microsoft.com/t5/iis-support-blog/the-file-has-not-been-pre-compiled-error-and-solution/ba-p/945340>
- Using named rules as filter in autocalculations with a type different from script does not work. Please create the filter by adding each filter condition.
- Possible client crash using administrator client in 64-bit mode and "Editable Tree view" or "Export schema" dialog depending on the set "AllocationPreference" of the local machine.
- When using a Multi-Server Architecture, it is discouraged to use MAPI as the protocol in both incoming and outgoing email accounts at the same time. Otherwise, it might occur that in rare situations, incoming emails are not processed for some time.
- There is a known issue with very large timeline views and printing on clients running in a virtualized environment accessed through a remote desktop connection that may cause the client to crash on an out of memory condition.
- There is an issue using Pop-Up forms in Classic Web Gateway if the option "Open all Objects in the same pop-up Form" is set to true. There will be an error message when an object within the pop-up form is closed.
- When using Internet Explorer and deleting a section from a time-stamped memo field, it might happen that other changes done in the form are not processed when saving.

- When deleting a section of a time-stamped memo field and directly (without saving in the meantime) adding a new section in the Web client, it might happen that the new text is saved twice.
- When using text size zooming, it could happen that the placement of the controls is not as expected. This depends on how the anchoring options are set.
- If the option "ShowTooltipsOnDisabledControls" is activated for object forms in some special cases in the windows end user client this option is ignored.
- Depending on the used browser, there may be some restrictions in the usability of the Web Gateway. On desktop systems, using the browsers Chrome or Firefox is recommended. There are limitations on desktop systems regarding formatted fields of the new subtype "Formatted Text":
 - Copy text with images from MS Word: Images will not be copied. Images have to be copied and inserted separately, one by one.
 - Copy text with images from emails: Images will not be copied. Images have to be saved to disk and inserted afterwards.
 - Copy text with images from Web Gateway to other applications: Images will not be copied.
 - Using Formatted Text field in a restriction rule or in a restriction script: This is not recommended.
Opening a dropdown in the rich text toolbar, like "Font Size", will execute a check if a restriction has to be applied.
- Formatted fields of the old subtype "Formatted Text (old)" are not working in the browsers Chrome and Edge.

New Features

General – Complete System

Title	Networking: Support for Internet Protocol version 6 (IPv6)
Number	OT-013199
Class	New Feature
	In addition to Internet Protocol version 4 (IPv4), OMNITRACKER does now also support Internet Protocol version 6 (IPv6) for client-server communication, as well as for cluster-internal.

Interface Bus – MS Exchange Sync

Title	IB Synchronization: Dynamic MS Exchange Filter with relative date/time values
Number	OT-033336
Class	New Feature

Dynamic filter calculation for fields of type date: it is possible to use date tokens, to create a "dynamic" filter.

The dynamic filter is recalculated each time it is requested.

At the moment the following Date Tokens can be used:

- CurrentDate, this is the current date, e.g. if today is '2020-07-31', then CurrentDate will be '2020-07-31'
- StartCurrentMonth, this is the first day of the current month; e.g. if today is '2020-07-31', then StartCurrentMonth will be '2020-07-01'
- StartCurrentYear, this is the first day of the current year; e.g. if today is '2020-07-31', then StartCurrentYear will be '2020-01-01'

It is also possible, to calculate the date in the filter dynamically, adding a '+' or '-' operator followed by an integer to the date token. The integer gives the number of the days, that should be added to or subtracted from the given date token.

If today was '2020-07-31', then

- 'CurrentDate - 10' will be '2020-07-21' ("2020-07-31 - 10 days")
- 'StartCurrentMonth + 10' will be '2020-07-11' ("2020-07-01 + 10 days")
- 'StartCurrentYear + 90' will be '2020-03-01' ("2020-01-01 + 90 days")
- 'StartCurrentYear - 180' will be '2019-07-05' ("2020-01-01 - 180 days")

Please note:

The date token must always be the first item in the calculation; "+" or "-" operators are allowed to follow the date token.

The "+" or "-" operators followed by a number of days is optional, see examples.

Please be aware, that using dynamically calculated filters may cause misconducts, as items matching the filter today will not match the defined filter on another day.

These items are then treated as "deleted" items because they do not match the filter.

These elements are removed when the configuration sets the deletion of external system elements.

Filter Examples:

- [calendar:Start] >= '2020-01-01' and [calendar:End] <= '2020-04-01'
- [calendar:Start] >= 'StartCurrentYear' and [item:Subject] Contains 'Meeting'
- [calendar:Start] >= 'CurrentDate - 90' and [item:Subject] Contains 'Meeting'

Changed Features

Administration

Title **"Remove All Objects"-Functionality has been removed from File-Menu**
Number OT-033146
Class Change Request
The functionality "Remove All Objects" has been removed from
"File → Administration → Remove All Objects".
Clearing a database can still be achieved by using OMNITRACKER CopyDB-Tool

Automation Interface

Title **"OldRequest" is now available in client-side scripts in object forms in the windows client**
Number OT-030943
Class Change Request

Automation Interface

Title **OtAut: OtServerScript: It is now possible to specify the transaction level of server-side scripts**
Number OT-033533
Class Change Request
Available transaction levels:

- "Operation": Each write operation is covered by a separate transaction
- "Script": Complete script is covered by a single transaction

Email Gateway

Title **Emails with charset GB18030 (54936 codepage) are now supported**
Number OT-436839
Class Change Request

Folder

Title **DB-Views: Deleting the schema object now also deletes the corresponding view**
Number OT-026900
Class Change Request
This reduces the risk of "relict" DB-Views in the database, which are not visible or accessible for the OT-Admin anymore and can only be accessed in the database directly.

Changed Features

General – Complete System

Title **Security: SVG images now optionally can be removed from formatted text fields before they are displayed in the WebGW**

Number OT-036726

Class Change Request

SVG images may contain harmful JavaScript code. This code by default is not executed if the image is embedded into a formatted text field. But if the user right-clicks such an image to view it in a separate browser tab, then the scripts are invoked.

In the web.config file the following AppSettings key can be set to remove potential harmful SVG images from formatted text fields:

```
<add key="OT_SanitizeFormattedTextFieldsAndRemoveSvgImages" value="true"/>
```

Login/Logout/Authentication

Title **WebGuest-Passwords: Case Sensitivity**

Number OT-008707

Class Change Request

Fixed an issue where passwords of guest logins were or were not case sensitive, depending on the case sensitivity settings of the attached database. Passwords of WebGuests now are always case sensitive.

Login/Logout/Authentication

Title **SAML 2.0 Authentication: Azure Active Directory is now supported as IdP**

Number OT-033875

Class Change Request

The SAML 2.0 authentication method now also supports the "HTTP POST" binding for the SAML response.

By this Azure Active Directory is also supported as identity provider.

Performance Improvements

Automation Interface

Title **OtAut: It is now possible to skip sort stability in searches performed with OtSearchRequest**

Number OT-033372

Class Performance Improvements

Therefore, a new property "SortStability" was added to the OtSearchRequest-object. By this sorting by UniqueID can be disabled. This may reduce the CPU usage on database servers when performing searches using OtSearchRequest.

Folder Administration – Fields

Title **Improve the handling and management of database indices – Phase 1**

Number OT-026626

Class Performance Improvements

Administrators now have the permission to add/remove indices on specific tables in the OMNITRACKER database. Currently, there is no OT-Admin-GUI, indices are created directly in the database. Supported index properties:

- Combination of fields (ASC/DESC)
- INCLUDE Columns (only SQL Server)
- Unique property
- Filter Indexes (only SQL Server)
- Lock Behavior Definitions (only SQL Server):
 - Allow Rowlocks
 - Allow Pagelocks

Allowed tables are all tables that concern the query of user data:

- ProblemReport
- History
- UserFields
- ReferenceList
- StringTransShort
- StringTranslations
- Answer
- DropDownValues
- Status

In-depth knowledge of SQL is required!

Fixed Defects

BPMN Modeler + Engine

Title **More robust handling of BPMN Timer events**
Number OT-034177
Class Defect
If a transaction must be rolled back due to an error, the situation could occur that a token came back to an already triggered timer event, where it would have waited forever.
This issue has been fixed.

BPMN Modeler + Engine

Title **Fixed possible crash when starting BPMN processes when executing script tasks in different sessions**
Number OT-036734
Class Defect

BPMN Modeler + Engine

Title **Fixed Standalone BPMN Modeler-Crash**
Number OT-034836
Class Defect
Fixed issues where standard BPMN modeler crashed when accessing erroneous BPMN models.

Forms (Windows Client) – Form Editor (WPF version, from OT V10.4)

Title **Drag & Drop of AutoNumber fields to search forms does no longer create a locked control**
Number OT-034836
Class Defect

Internationalization (Multilingual features)

Title **String Translations of deleted folders**
Number OT-034956
Class Defect
Solved an issue where inconsistent string translations regarding deleted folders could not be fixed using the database fix tool.

Scripting Engine

Title **Call of GetRef() with non-existing sub or function now returns an error message**
Number OT-035157
Class Defect

Fixed Defects

Rich Edit Control – General

Title **Avoided unnecessary OnAfterFieldChanged calls for Time Stamped Memo fields**
Number OT-034027
Class Defect
When the content of the insertion section of a time stamped memo field (formatted text) was modified, every click into the control caused an OnAfterFieldChanged event. Now the event is only raised when the content has changed since the control got the focus.

Selection Trees – Windows Client

Title **Fixed an issue with sort-order in selection trees**
Number OT-035157
Class Defect

Service Control Panel (WPF Version 11.2 - ...)

Title **Service Control Panel now allows multiple instances for different users**
Number OT-032227
Class Defect

Web Gateway – Form Editor (WPF Version)

Title **Fixed an issue with saving and loading "Sort list by"-property of fields of type Reference-to-object**
Number OT-032227
Class Defect

Web Gateway – Object Page

Title **It is now possible to navigate through the pages of a read-only reference list control (paging was disabled so far)**
Number OT-032227
Class Defect

Web Service REST Provider

Title **REST-WebService: Incorrect Date values**
Number OT-436938
Class Defect
Fixed an issue where the received date values in a JSON body were not converted correctly to the VB script values.

WebGateway 2.0 – Login-Page

Title **After closing an existing session on the login screen, the client is no longer redirected to the default login URI**
Number OT-035714
Class Defect