



**Open-Xchange App Suite /  
OX Documents  
Major Release v7.6**

**Feature Overview**

**V1.9**

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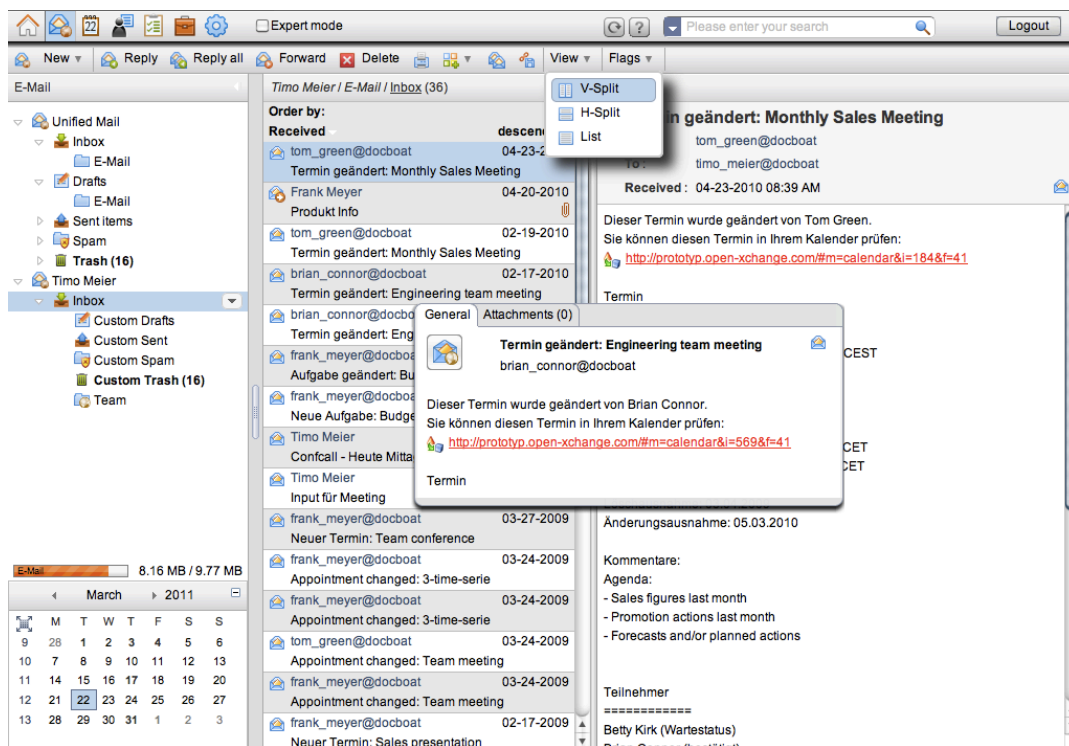
# 1 Intention of the Document

This document offers an overview of new web frontend features and other changes, which will be coming with the new major release of OX App Suite, v7.6.

The purpose of this document is to help Open-Xchange customers and partners understand the logic behind these changes, especially the reason for enhancements in usability.

## 1.1 Design paradigm adjustment

When we started to develop OX App Suite in 2011 we had to make design choices in order to anticipate design trends for the coming years. We decided to focus on the fact that we create a web-based solution and that our users don't necessarily grow up with native applications. The idea was to create a contrast to emulating native apps inside the browser that has been a habit over the years. The starting point was OX6:



In essence, web means white backgrounds, flow layouts, and blue links. At the same time, Microsoft published their ideas on the [Metro UI](#), which then became Windows 8. Their design language indicated a similar design trend: content not chrome, layout by white space and typography. “Chrome” is anything you don't need: shadows,

gradients, borders, 3D-effects, etc. We decided to take that direction which was the right one. In the next years, big players like Google (esp. Android), Apple (esp. iOS; said good-bye to [skeuomorphism](#)), Microsoft, and Amazon also showed up on that design track. What we have today is ... **Flat Design**:



Sources: <http://www.smashingmagazine.com/2013/09/03/flat-and-thin-are-in/> and <http://www.smashingmagazine.com/2013/07/16/authentic-design/>

Flat design is not specific to the web – it works for operating systems and native applications as well. With OX App Suite v7.6 we have readjust some of our design decisions for a better adaptation to contemporary design in 2014. That means we can relax some constraints and we don't have to be so *web-esque*. *Flat* is enough. In the following pages, we highlight some of those changes in the product.

## 2 OX Mail Enhancements and Design Updates

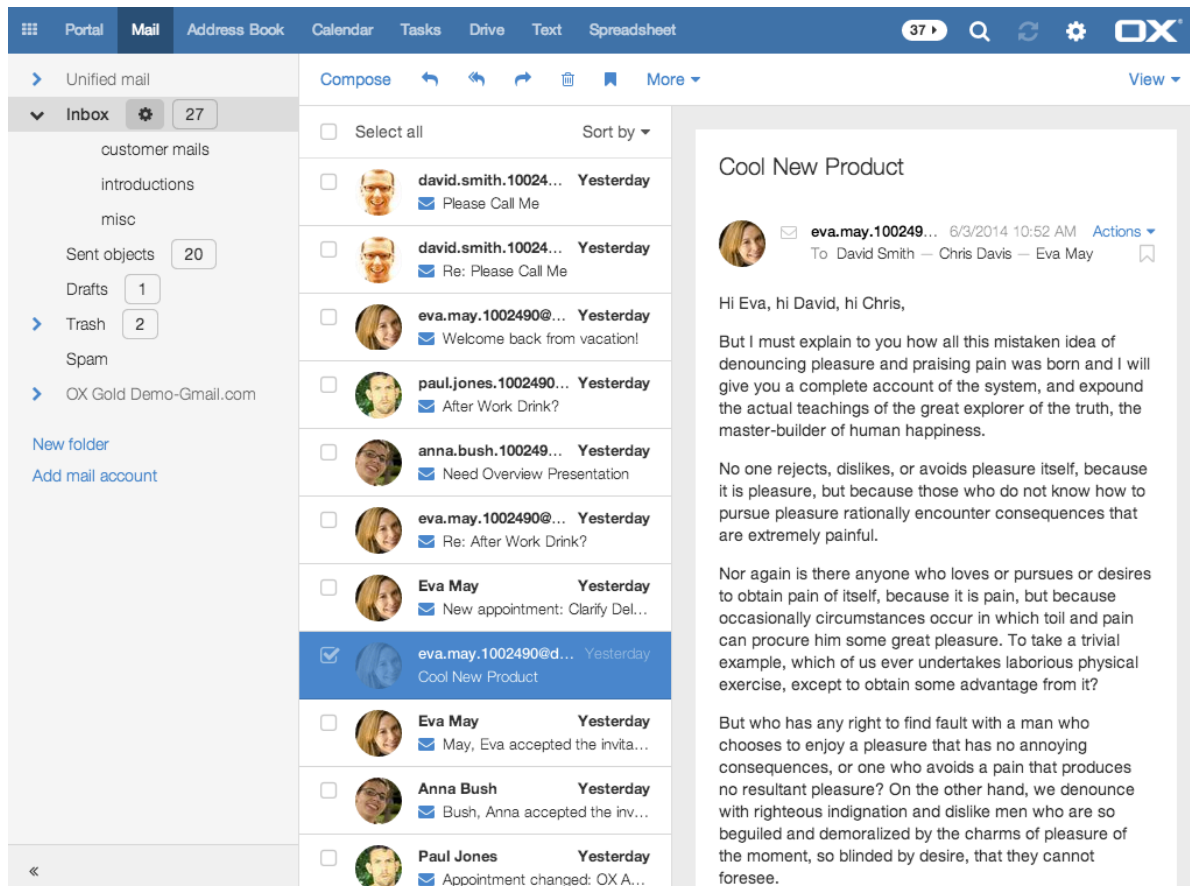
### 2.1 Updated Toolbar Concept

#### 2.1.1 Classic Toolbar

The new toolbar extends the toolbar concept into OX Mail. However, we will keep the idea of inline links because we show emails at different places in the web frontend, for example, on the OX Portal.

The reason for making this change is that we have identified an end-users need for fixed toolbars in the main applications based on usability tests and customer and partner feedback. This also works with the flat design of the OX App Suite web frontend as explained above.

In addition to the feedback we have received, user migration from Open-Xchange 6 provided us with a development starting point based on known usability behavior. All in all, it's a necessary evolutionary step and moves us in the right direction.














The screenshot displays the OX Mail web interface. At the top, there is a navigation bar with tabs for Portal, Mail, Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. The 'Mail' tab is active. Below the navigation bar, there is a toolbar with 'Compose' and several icons for email actions. The main area is divided into three sections: a left sidebar for folder navigation, a central email list, and a right pane for the selected email's content.

**Left Sidebar (Folders):**


- Unified mail
- Inbox (27)
- customer mails
- introductions
- misc
- Sent objects (20)
- Drafts (1)
- Trash (2)
- Spam
- OX Gold Demo-Gmail.com
- New folder
- Add mail account

**Central Email List:**

<input type="checkbox"/>	Select all	Sort by ▾
<input type="checkbox"/>	 david.smith.10024... Yesterday	Please Call Me
<input type="checkbox"/>	 david.smith.10024... Yesterday	Re: Please Call Me
<input type="checkbox"/>	 eva.may.1002490... Yesterday	Welcome back from vacation!
<input type="checkbox"/>	 paul.jones.1002490... Yesterday	After Work Drink?
<input type="checkbox"/>	 anna.bush.100249... Yesterday	Need Overview Presentation
<input type="checkbox"/>	 eva.may.1002490... Yesterday	Re: After Work Drink?
<input type="checkbox"/>	 Eva May Yesterday	New appointment: Clarify Del...
<input checked="" type="checkbox"/>	 eva.may.1002490@d... Yesterday	Cool New Product
<input type="checkbox"/>	 Eva May Yesterday	May, Eva accepted the invita...
<input type="checkbox"/>	 Anna Bush Yesterday	Bush, Anna accepted the inv...
<input type="checkbox"/>	 Paul Jones Yesterday	Appointment changed: OX A...

**Right Pane (Selected Email):**

**Cool New Product**

 eva.may.100249... 6/3/2014 10:52 AM Actions ▾  
To: David Smith — Chris Davis — Eva May

Hi Eva, hi David, hi Chris,

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

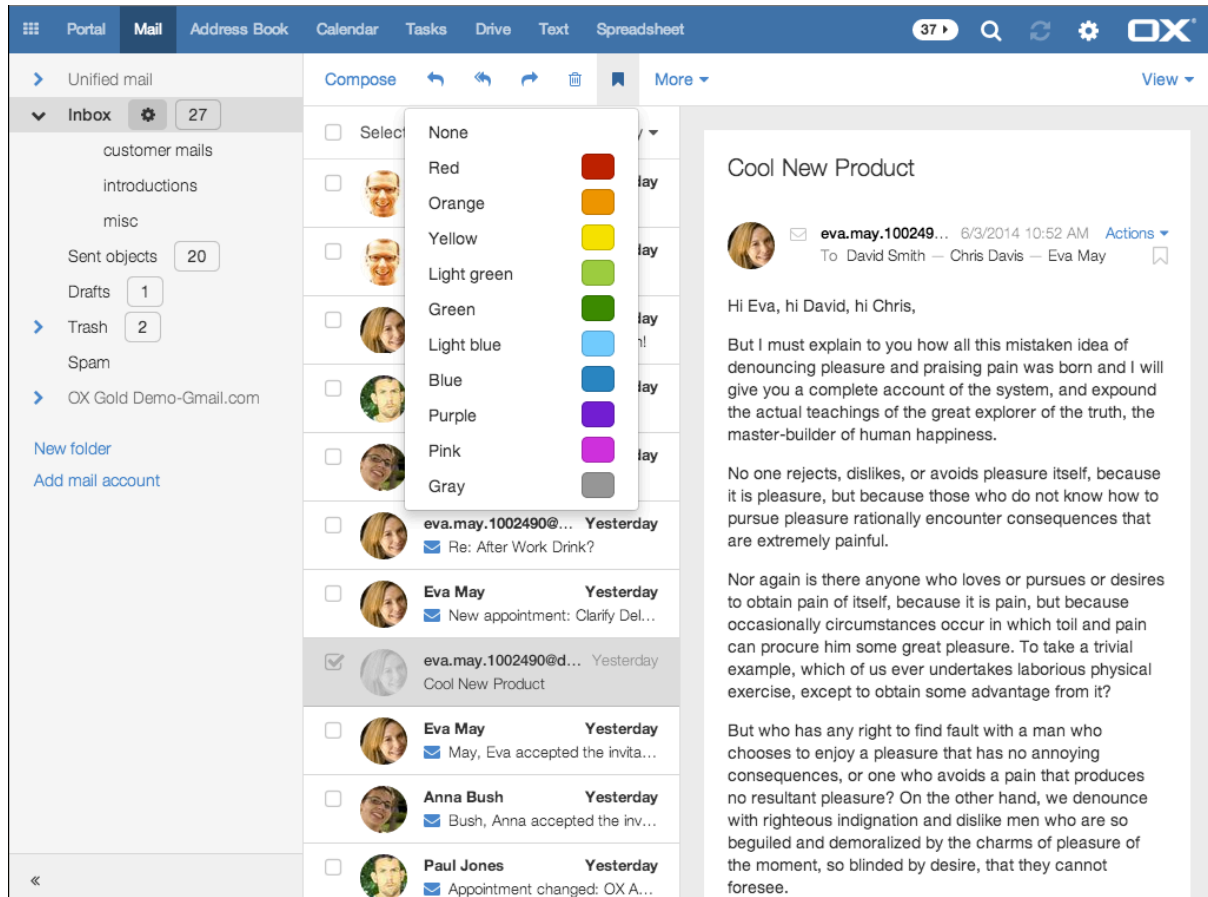
No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it?

But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure? On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee.

## 2.1.2 Open Flag Drop-Down

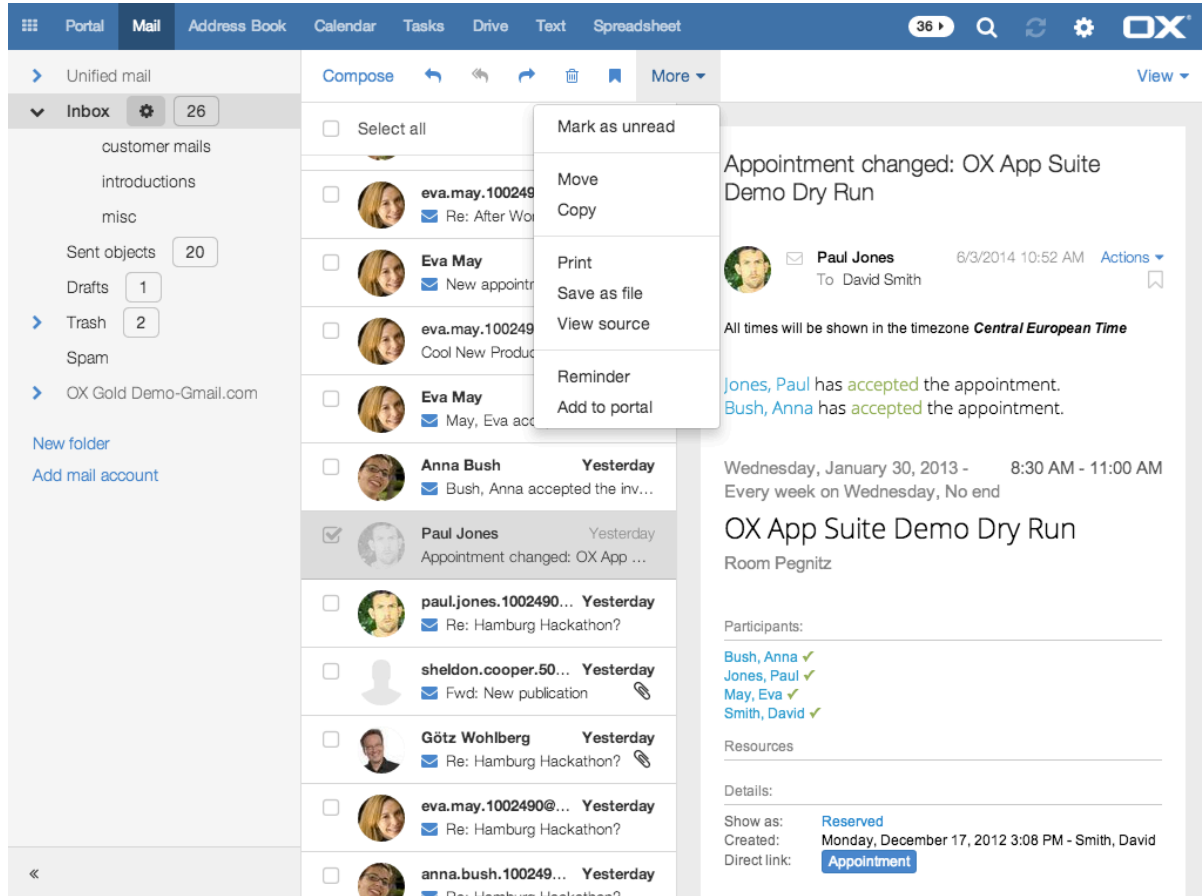
The new toolbar provides improved handling of different drop-down menus in the OX Mail application. With OX App Suite v7.6, the open flag drop-down is now available beside the other functions and menus. For the user, all the necessary and important working tools are now in one place in the toolbar. A User can also flag mails via single and multi-selection.



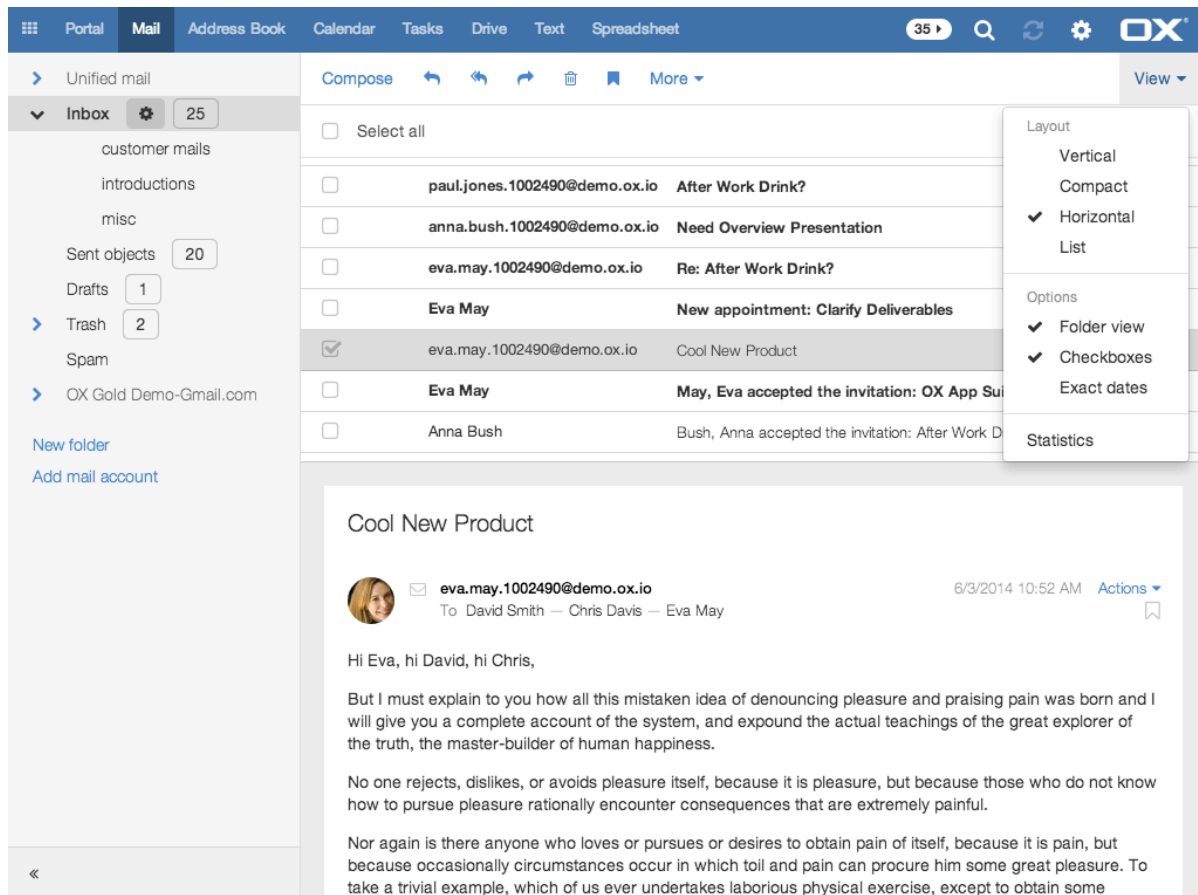


## 2.1.3 Open “More” Drop-Down

In addition to the availability of the flag drop-down, we have decided to provide all other functions and tools in the new “more” drop-down menu on the same toolbar. With this change the user will also see all the functions for the selected mail in one row on the toolbar.



## 2.1.4 Open “View” drop-down



The reason for a dedicated view drop-down is that it contains some basic options that change the application layout. These options do not fit in the “Sort by” drop-down, for example (and it would get crowded). And since we expect frequent usage it doesn’t make sense to hide those options in a settings pane. Plus we no longer need dedicated buttons for toggling the folder view or the checkboxes inside the list view.

The “View” drop-down reveals a new feature (known from Open-Xchange Server 6). You now have three layouts:

- Preview on the right side
- Preview at the bottom,
- No preview but a plain list view.

## 2.1.5 The “Sort by” drop-down and Thread View

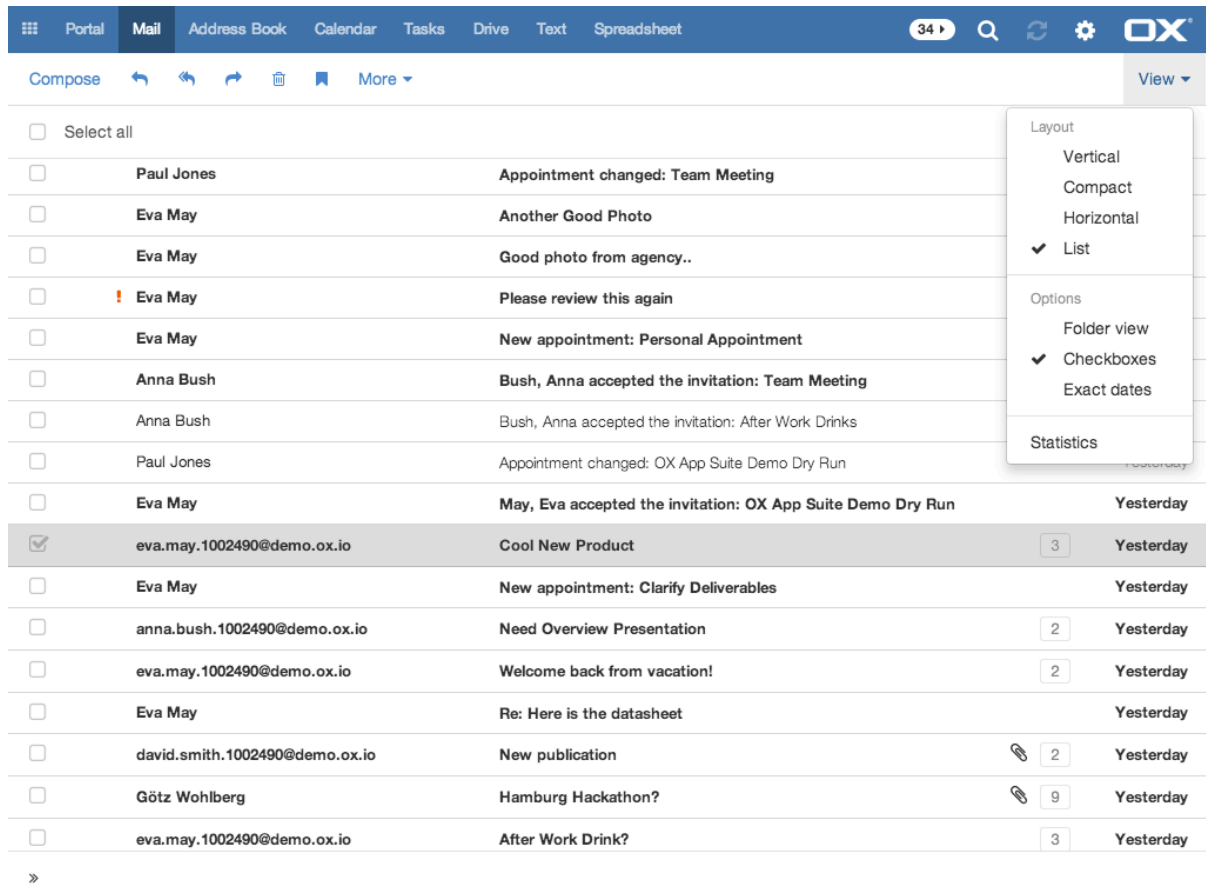
The screenshot displays an email client interface with a blue header bar containing navigation tabs: Portal, Mail, Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. The 'Mail' tab is active. On the left, a sidebar shows the 'Inbox' with 25 items and sub-folders like 'customer mails', 'introductions', and 'misc'. Below the sidebar, a list of email items is shown, including messages from Eva May, Anna Bush, Paul Jones, and David Smith. A 'Sort by' dropdown menu is open over the list, showing options: Date (checked), From, Unread, Size, Subject, Color, Ascending, Descending (checked), and Conversations. The right pane shows a thread view for the email 'Cool New Product' from Eva May, dated 6/3/2014 10:52 AM. The thread content includes a greeting and a philosophical discussion about pleasure and pain.

The sorting is stored for each folder. As a consequence, the option for the “Thread view” has been removed from the settings pane. By default, the thread view is now turned off.

## 2.2 New OX Mail views for the Web Frontend

### 2.2.1 The List View

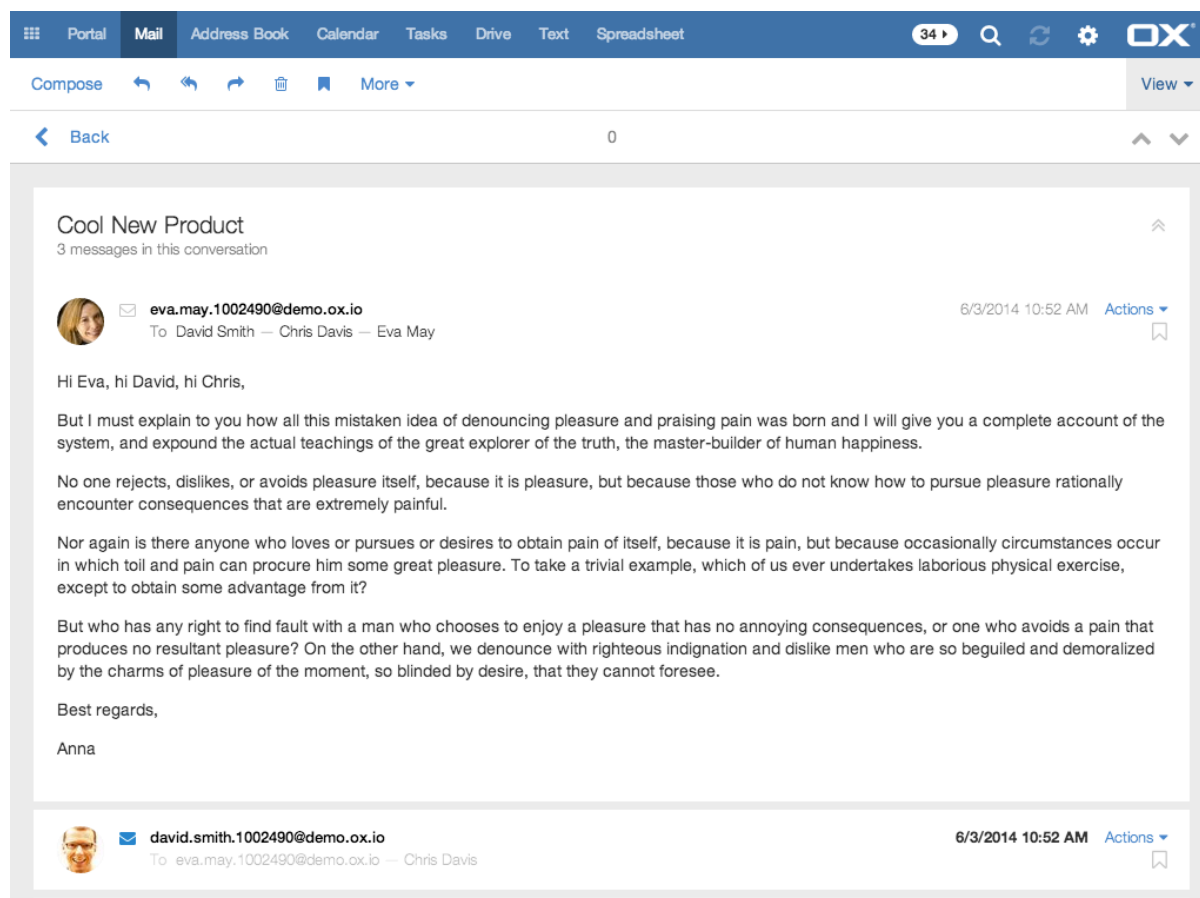
With OX App Suite v7.6, Open-Xchange provides an updated list view for OX Mail. In addition to the new design, further functions are available to allow a better browsing behavior for emails (see below).



Compose		View	
<input type="checkbox"/>	Select all		
<input type="checkbox"/>	Paul Jones	Appointment changed: Team Meeting	
<input type="checkbox"/>	Eva May	Another Good Photo	
<input type="checkbox"/>	Eva May	Good photo from agency..	
<input type="checkbox"/>	! Eva May	Please review this again	
<input type="checkbox"/>	Eva May	New appointment: Personal Appointment	
<input type="checkbox"/>	Anna Bush	Bush, Anna accepted the invitation: Team Meeting	
<input type="checkbox"/>	Anna Bush	Bush, Anna accepted the invitation: After Work Drinks	
<input type="checkbox"/>	Paul Jones	Appointment changed: OX App Suite Demo Dry Run	
<input type="checkbox"/>	Eva May	May, Eva accepted the invitation: OX App Suite Demo Dry Run	Yesterday
<input checked="" type="checkbox"/>	eva.may.1002490@demo.ox.io	Cool New Product	3 Yesterday
<input type="checkbox"/>	Eva May	New appointment: Clarify Deliverables	Yesterday
<input type="checkbox"/>	anna.bush.1002490@demo.ox.io	Need Overview Presentation	2 Yesterday
<input type="checkbox"/>	eva.may.1002490@demo.ox.io	Welcome back from vacation!	2 Yesterday
<input type="checkbox"/>	Eva May	Re: Here is the datasheet	Yesterday
<input type="checkbox"/>	david.smith.1002490@demo.ox.io	New publication	2 Yesterday
<input type="checkbox"/>	Götz Wohlberg	Hamburg Hackathon?	9 Yesterday
<input type="checkbox"/>	eva.may.1002490@demo.ox.io	After Work Drink?	3 Yesterday

## 2.2.2 The Detail View

In the detail view, users have the option to go back via the “Back” button or browse through the emails with the controls on the right side:



The screenshot displays the Open-Xchange email interface. At the top, a blue navigation bar contains menu items: Portal, Mail (selected), Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. On the right of this bar are a notification badge with '34', a search icon, a refresh icon, a settings gear, and the 'OX' logo. Below the navigation bar is a toolbar with 'Compose', a reply icon, a reply-all icon, a forward icon, a trash icon, a bookmark icon, and a 'More' dropdown. A 'View' dropdown is also present on the right. The main content area shows a conversation titled 'Cool New Product' with '3 messages in this conversation'. The first message is from 'eva.may.1002490@demo.ox.io' to 'David Smith', 'Chris Davis', and 'Eva May', dated '6/3/2014 10:52 AM'. The message body contains the following text:

Hi Eva, hi David, hi Chris,

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it?

But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure? On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee.

Best regards,

Anna

The second message header is from 'david.smith.1002490@demo.ox.io' to 'eva.may.1002490@demo.ox.io' and 'Chris Davis', dated '6/3/2014 10:52 AM'.


## 2.2.3 Horizontal View

A completely new view for OX Mail is the option “Horizontal”. With this option the user can see the complete list and a preview of the mail in a horizontal split.

The screenshot displays the OX Mail interface in a horizontal split view. The top navigation bar includes 'Portal', 'Mail', 'Address Book', 'Calendar', 'Tasks', 'Drive', 'Text', and 'Spreadsheet'. The left sidebar shows the 'Inbox' with 25 items and various folders like 'customer mails', 'introductions', 'misc', 'Sent objects' (19), 'Drafts' (1), 'Trash' (2), and 'Spam'. The main area is divided into two sections: a list of emails and a preview pane. The email list shows several messages, with the selected one being 'Cool New Product' from 'eva.may.1002490@demo.ox.io'. The preview pane displays the email content, including a greeting and a paragraph of text.

From	Subject
Eva May	May, Eva accepted the invitation: OX App Suite
eva.may.1002490@demo.ox.io	Cool New Product
Eva May	New appointment: Clarify Deliverables
anna.bush.1002490@demo.ox.io	Need Overview Presentation
eva.may.1002490@demo.ox.io	Welcome back from vacation!
Eva May	Re: Here is the datasheet
david.smith.1002490@demo.ox.io	New publication

**Cool New Product**  
3 messages in this conversation

 **eva.may.1002490@demo.ox.io** 6/3/2014 10:52 AM [Actions](#)

To: David Smith — Chris Davis — Eva May

Hi Eva, hi David, hi Chris,

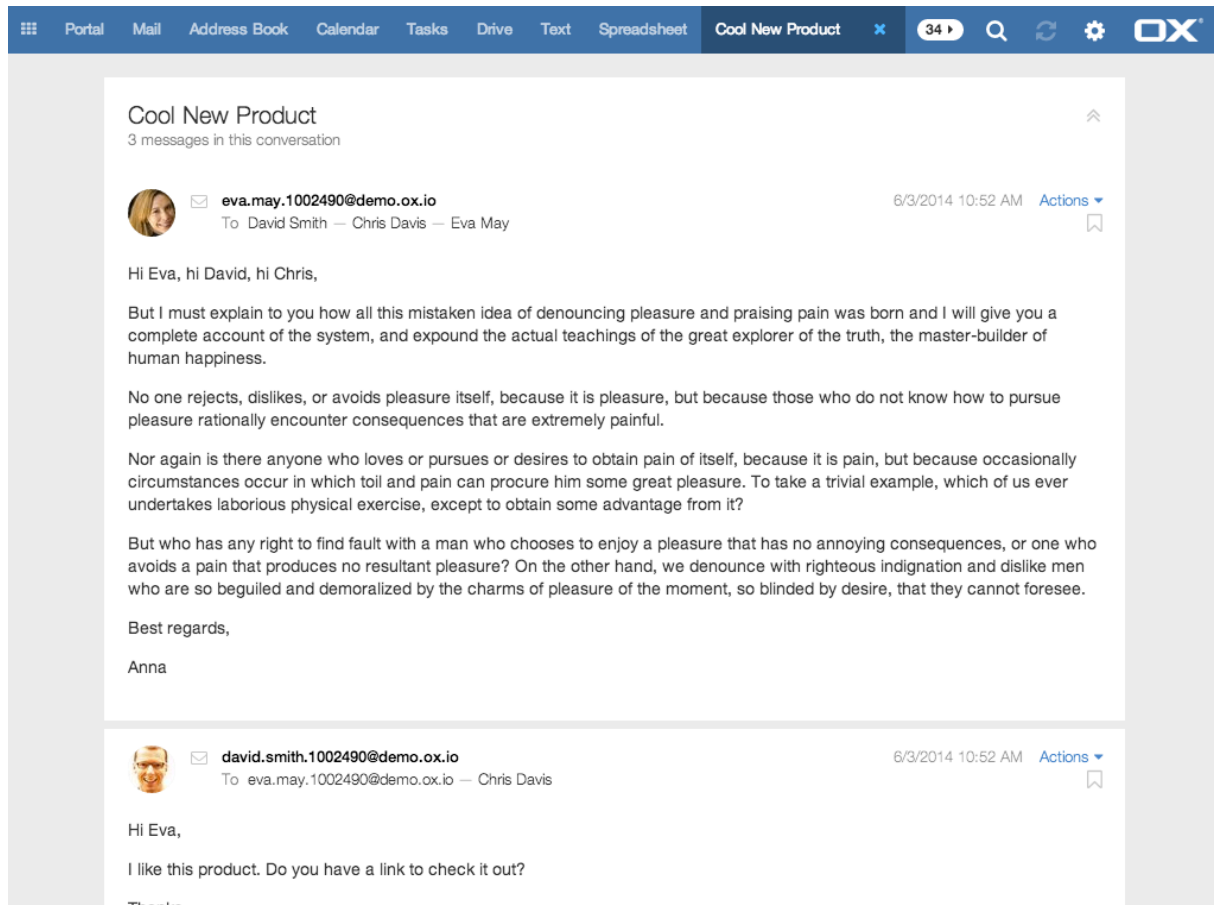
But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To

## 2.2.4 Full-screen Mail View




Users can now open an email view in a separate window by double-clicking on an email in the list view. The need for a full-screen mail view was identified during OX Mail view handling user tests.



Portal Mail Address Book Calendar Tasks Drive Text Spreadsheet Cool New Product x 34 Q ↻ ⚙️ OX

### Cool New Product

3 messages in this conversation

  **eva.may.1002490@demo.ox.io** 6/3/2014 10:52 AM [Actions](#) ▾  
To David Smith — Chris Davis — Eva May 

Hi Eva, hi David, hi Chris,

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

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Best regards,

Anna

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  **david.smith.1002490@demo.ox.io** 6/3/2014 10:52 AM [Actions](#) ▾  
To eva.may.1002490@demo.ox.io — Chris Davis 

Hi Eva,

I like this product. Do you have a link to check it out?

Thanks

## 2.2.5 New “Compact” Mail View

OX App Suite v7.6 introduces a new “Compact” mail view for the view menu. It is identical to Vertical but the upper toolbars are next to each other instead of being above each other. The reasons for this new view are that the layout saves vertical space and as a major benefit the menu items are closer to the email. This layout works well on large displays.

The screenshot displays the OX App Suite mail interface in Compact view. The top navigation bar includes 'Portal', 'Mail', 'Address Book', 'Calendar', 'Tasks', 'Drive', 'Text', and 'Spreadsheet'. Below this is a toolbar with 'Select all', 'Sort by', 'Compose', and 'View' options. The main area shows a list of emails on the left and a detailed view of an email titled 'Cool New Product' on the right. A 'View' dropdown menu is open, showing options for 'Layout' (Vertical, Compact, Horizontal, List) and 'Options' (Folder view, Checkboxes, Contact pictures, Exact dates, Statistics). The email content includes a header with the sender 'eva.may.1002490@demo.ox.io' and recipients 'David Smith', 'Chris Davis', and 'Eva May'. The body text discusses a 'Cool New Product' and mentions 'pleasure' and 'pain'.

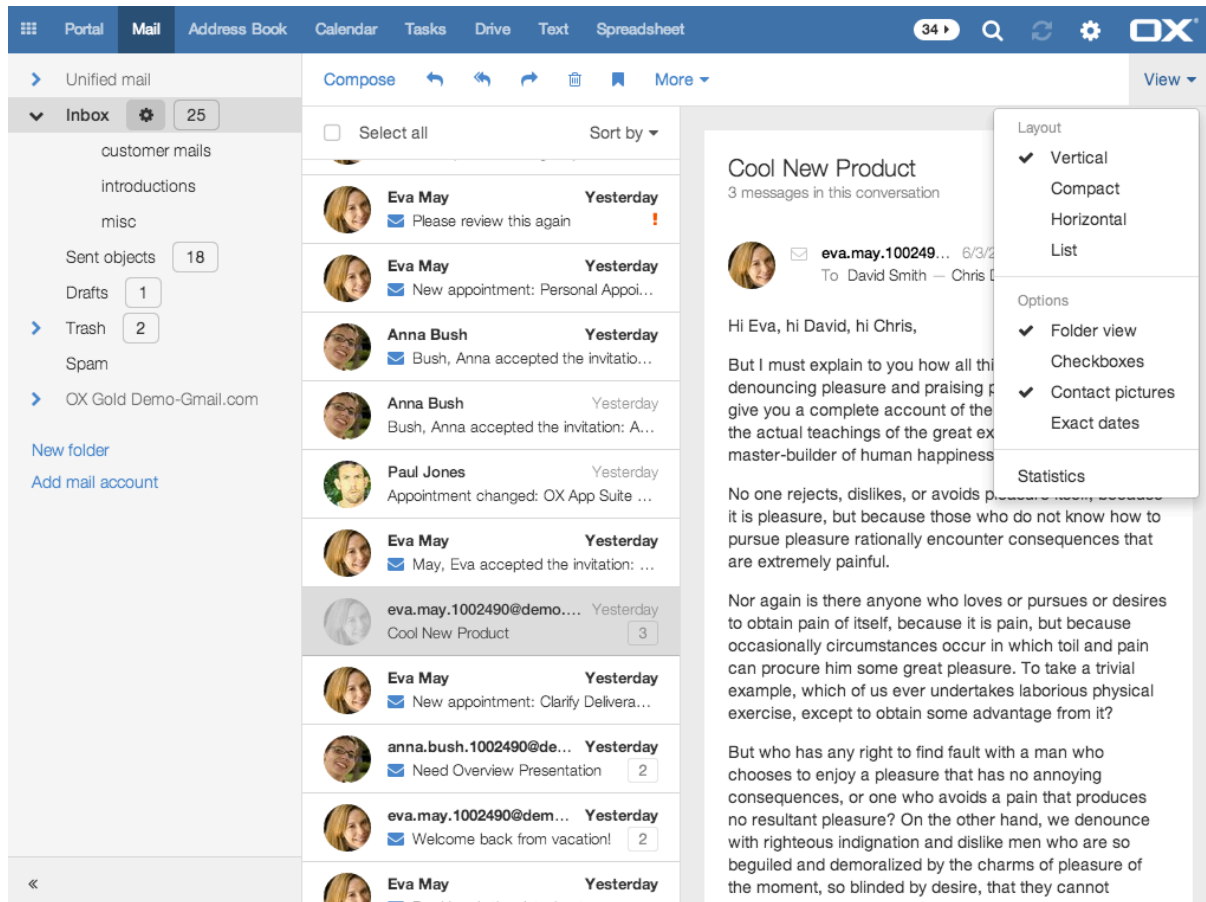
## 2.2.6 Improvements for Vertical View

OX App Suite v7.6 provides improved resizing handling of the vertical layout. It is possible to resize the list and the detail view area with a drag and resize on the vertical separator between both areas.



## 2.2.7 Contact Pictures in the list view

We have identified a need for some users to express their personal preferences by setting up OX App Suite to provide a view similar to the social networks they are currently using, by adding contact pictures to the OX Mail list view. The inclusion of pictures is an option, which is turned off by default.

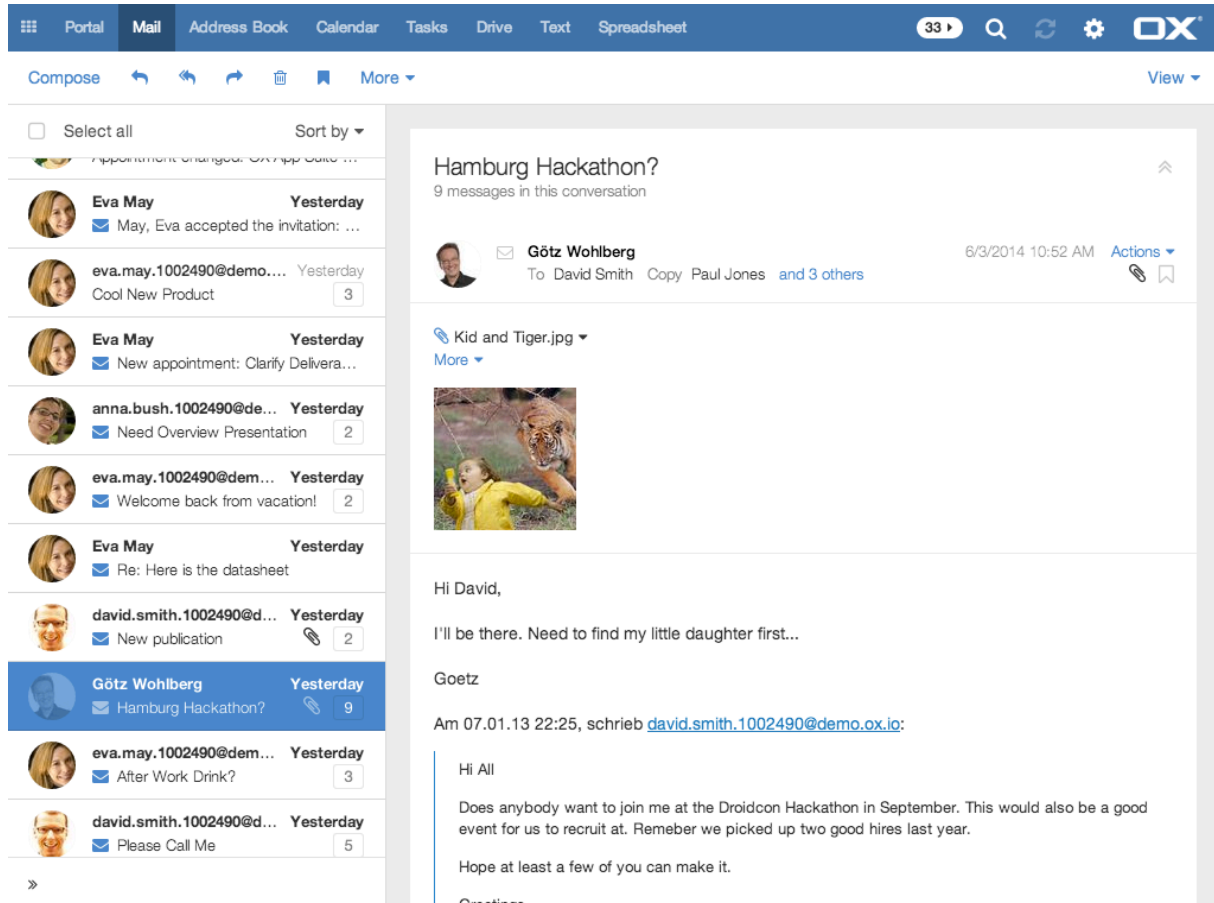


## 2.3 New in-place attachment preview

The attachment preview will replace the current flat list of attachments. It features an immediate preview of each attachment (images & documents). A click on a preview image opens a full-screen slide show.

## 2.3.1 Attachment Preview

The attachment preview enhances the handling of pictures and documents. Users can see all attachments in a preview layout. Additionally a list of all attachments is available in a drop-down menu.



## 2.4 New Thread View

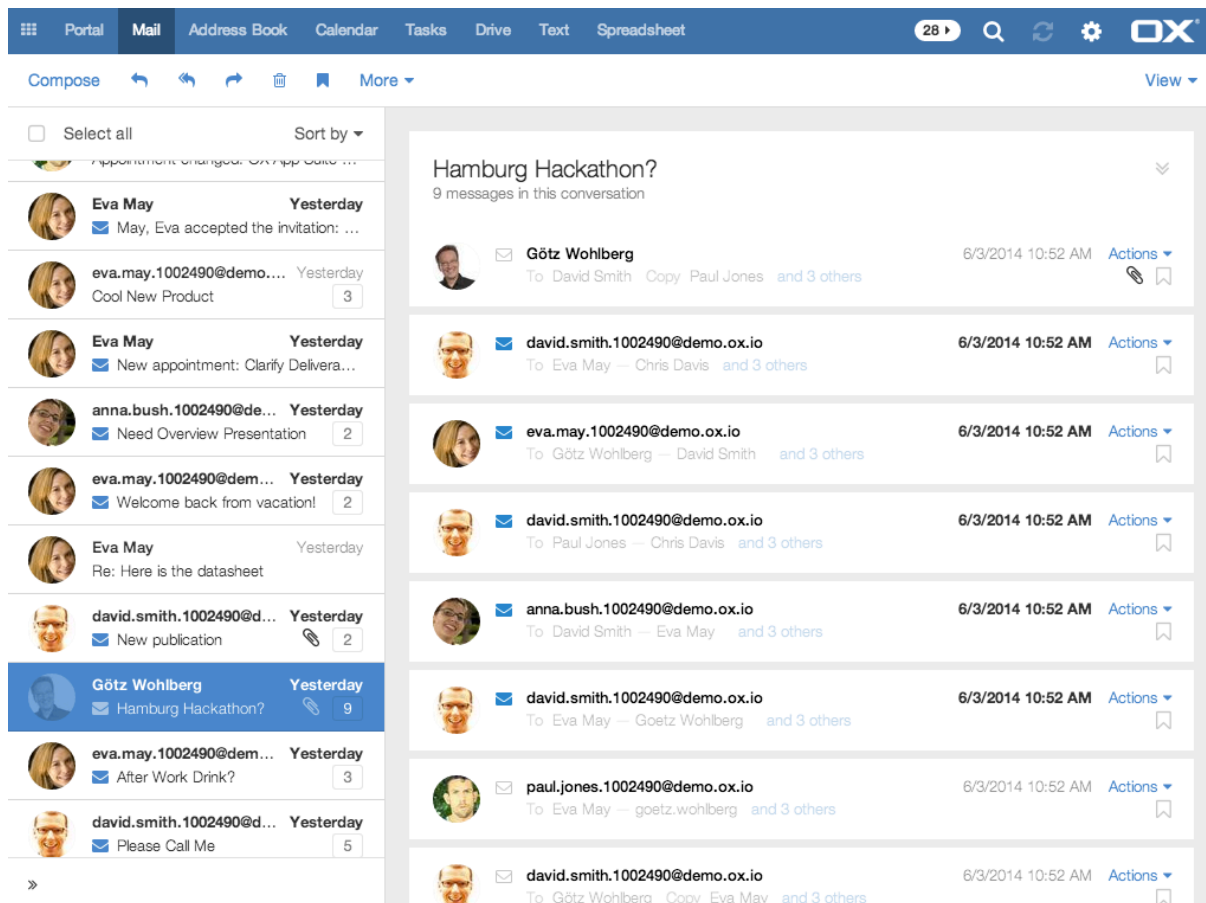
In OX App Suite v7.6 threads are now much more compact. A short list is displayed that provides a quick overview. A click on an email opens or closes the content area. If the user selects a thread in the list view, it will automatically open the most recent message (top) or – if it contains unseen messages – it will automatically open the most recently viewed message. This also provides consistency with 7.4 browsing experience. This improvement allows the user more control over the list.

## 2.4.1 The Compact Thread View

We have observed that users don't like to scroll. The current solution for OX App Suite v7.4 shows all mails in a long list. To navigate to a particular email users have to scroll manually or use the difficult to find "thread summary" in the list view. The current implementation doesn't work on smartphones well. To deliver a better working solution we have decided to use the compact list approach.

As the new thread-view is much more compact, a dedicated overview is no longer needed. The main problem of the summary is the fact that it's one of the least discovered features in the web frontend, therefore it was necessary to provide a better way to overview a conversation and a simple way to select a particular message.

To better identify a message we introduced more spacing between messages. And for better readability the recipient list is faded as long as the message is closed.



The screenshot displays the OX App Suite v7.6 email interface. At the top, there is a navigation bar with tabs for Portal, Mail, Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. The 'Mail' tab is active. Below the navigation bar, there are icons for Compose, Reply, Reply All, Forward, Delete, and More, along with a 'View' dropdown menu.

The main content area shows a list of email threads on the left and a detailed view of a selected thread on the right. The selected thread is titled 'Please Call Me' and contains 5 messages. The first message is from 'Eva May' with the subject 'May, Eva accepted the invitation: ...'. The second message is from 'eva.may.1002490@demo...' with the subject 'Cool New Product'. The third message is from 'Eva May' with the subject 'New appointment: Clarify Delivera...'. The fourth message is from 'anna.bush.1002490@de...' with the subject 'Need Overview Presentation'. The fifth message is from 'eva.may.1002490@dem...' with the subject 'Welcome back from vacation!'. The sixth message is from 'Eva May' with the subject 'Re: Here is the datasheet'. The seventh message is from 'david.smith.1002490@d...' with the subject 'New publication'. The eighth message is from 'Götz Wohlberg' with the subject 'Hamburg Hackathon?'. The ninth message is from 'eva.may.1002490@dem...' with the subject 'After Work Drink?'. The tenth message is from 'david.smith.1002490@d...' with the subject 'Please Call Me'.

The detailed view of the 'Please Call Me' thread shows a message from 'david.smith.1002490@demo.ox.io' dated 6/3/2014 10:52 AM. The message content is: 'OK. When can we start? Thanks, G. On December 13, 2012 at 3:30 PM david.smith.1002490@demo.ox.io v Hi David, Would be great if you could give me a call. It's about our new project. Thanks, D.' A quote is visible, starting with 'On December 13, 2012 at 3:30 PM david.smith.1002490@demo.ox.io v'. An actions menu is open on the right side of the message, listing options: Reply, Reply All, Forward, Delete, Mark unread, Send new mail, Invite to appointment, Save as distribution list, Move, Copy, Print, Save as file, View source, Reminder, and Add to portal.

Additionally quotes have been collapsed to improve readability and clarity. Long quotes in particular require a lot of scrolling and it is hard to locate the next message. Because of this the visual concept has changed with this release. OX App Suite v7.6 now shows a button on the left side and a plain text excerpt of the original text. The excerpt is limited to 300 characters.

## 2.4.2 Thread View with open Content Area

In the new thread view the subject is at the top-most position because this location can be used for single emails as well as threads. The idea is that the subject (without prefixes like RE or FWD) doesn't change during a thread (if it does, it's a new thread, technically).

Also note that each mail will get an unobtrusive "Actions" drop-down so that you can delete or reply to a particular email in a thread. In a future version we will introduce a one-click solution to mark messages as seen or unseen.

The screenshot displays an email client interface. At the top, there is a navigation bar with tabs for Portal, Mail, Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. The 'Mail' tab is active. To the right of the navigation bar, there is a notification '26', a search icon, a refresh icon, a settings icon, and the 'OX' logo. Below the navigation bar, there is a 'Compose' button and a 'More' dropdown menu. The main area is divided into two columns. The left column shows a list of emails, each with a profile picture, name, subject, and date. The right column shows a detailed view of an email from 'david.smith.1002490@demo.ox.io' to 'eva.may.1002490@demo.ox.io' on 6/3/2014 at 10:52 AM. The email content includes a greeting, a question about a link, and a quote from a previous email dated January 7, 2013.

Portal Mail Address Book Calendar Tasks Drive Text Spreadsheet 26 Q Refresh Settings OX

Compose View

Select all Sort by

Anna Bush Yesterday  
Bush, Anna accepted the invitatio...

Anna Bush Yesterday  
Bush, Anna accepted the invitation: A...

Paul Jones Yesterday  
Appointment changed: OX App Suite ...

Eva May Yesterday  
May, Eva accepted the invitation: ...

eva.may.1002490@demo.... Yesterday  
Cool New Product 3

Eva May Yesterday  
New appointment: Clarify Delivera...

anna.bush.1002490@de... Yesterday  
Need Overview Presentation 2

eva.may.1002490@dem... Yesterday  
Welcome back from vacation! 2

Eva May Yesterday  
Re: Here is the datasheet

david.smith.1002490@d... Yesterday  
New publication 2

»

Hi Eva,  
I like this product. Do you have a link to check it out?  
Thanks,  
David

On January 7, 2013 at 5:00 PM [eva.may.1002490@demo.ox.io](mailto:eva.may.1002490@demo.ox.io) wrote:

Hi Eva, hi David, hi Chris,

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it?

But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure? On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee.

Best regards,  
Anna

## 3 OX Contact Enhancements and Design Updates

### 3.1 Updated Toolbar Concept

The new toolbar extends the toolbar concept into OX Contacts. The Contact toolbar provides all necessary functions and menus directly in the content area of the application. A User sees the following functions “New”, “Send mail”, “Invite”, “Edit”, “Delete” and the menu “More” with “Send as vCard”, “Print”, “Move” and “Copy”.

The old toolbar, on the left side, is no longer available.

The screenshot displays the OX Contacts application interface. At the top, a navigation bar includes links for Portal, Mail, Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. The main toolbar contains buttons for New, Send mail, Invite, Edit, Delete, and More, along with a View dropdown menu. The left sidebar shows a folder structure with Private, Public, and Shared sections. The central pane displays a list of contacts, with 'Bush, Anna' selected. The right pane provides a detailed view of the selected contact, including a profile picture, name, company, job title, and various contact details like email and address. An 'Options' menu is visible over the contact details, showing 'Folder view' and 'Checkboxes' options.

Letter	Contact Name	Company
B	Bush, Anna	OMCA Corporation
D	Dr. Davis, Chris	OMCA Corporation
J	Jones, Paul	OMCA Corporation
M	May, Eva	OMCA Corporation
O	OMCA Team	Distribution list
S	Dr. Smith, David	OMCA Corporation, Game Designer

## 3.2 Open “View” drop-down

The reason for a dedicated view drop-down is that it contains some basic options that change the application layout. These options do not fit in the “More” drop-down, for example (and it would get crowded). And since we expect frequent usage it doesn’t make sense to hide those options in a settings pane. Plus we no longer need dedicated buttons for toggling the folder view or the checkboxes inside the list view.

The “View” drop-down provides a new feature (familiar in Open-Xchange Server 6).

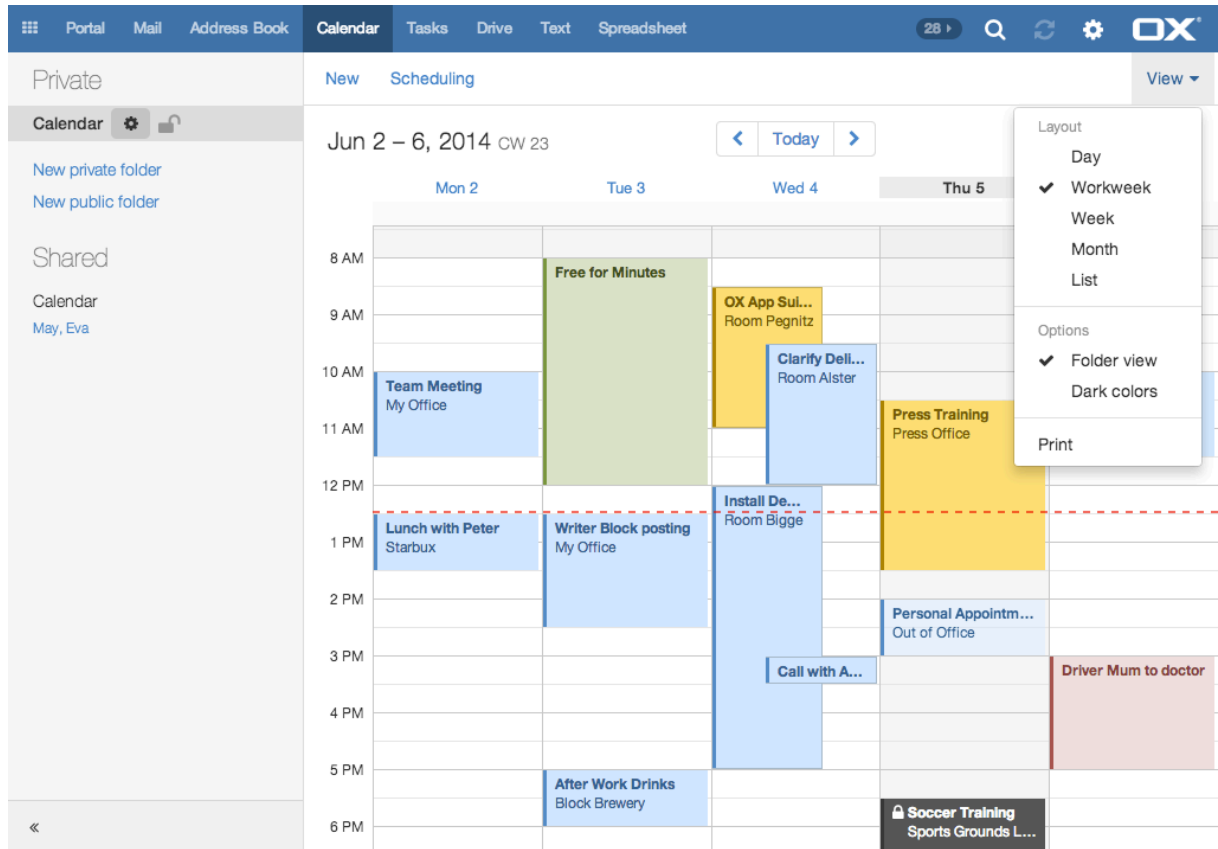
You now have two layouts:

- Folder View activated
- Checkboxes activated

## 4 OX Calendar Enhancements and Design Updates

### 4.1 Updated Toolbar Concept

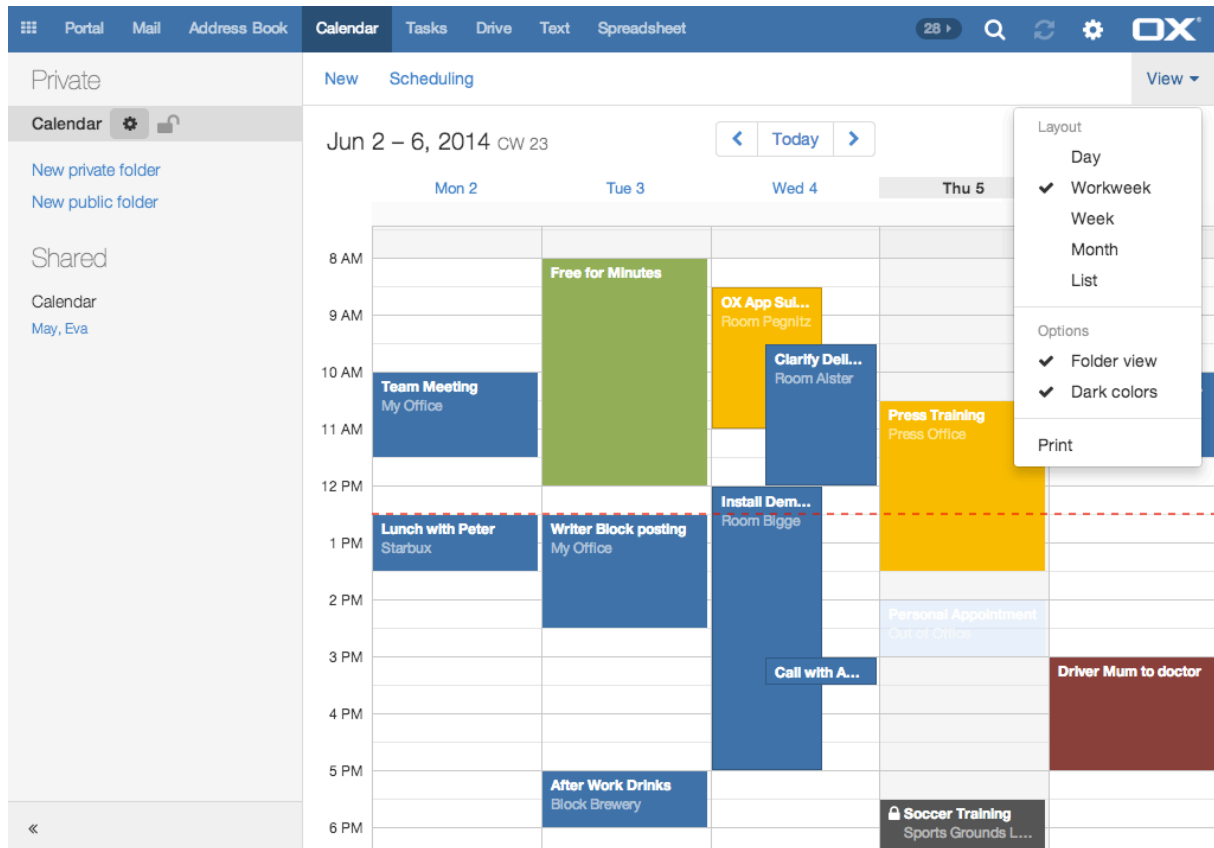
The new toolbar extends the toolbar concept into OX Calendar. The old toolbar, on the left side, is no longer available.





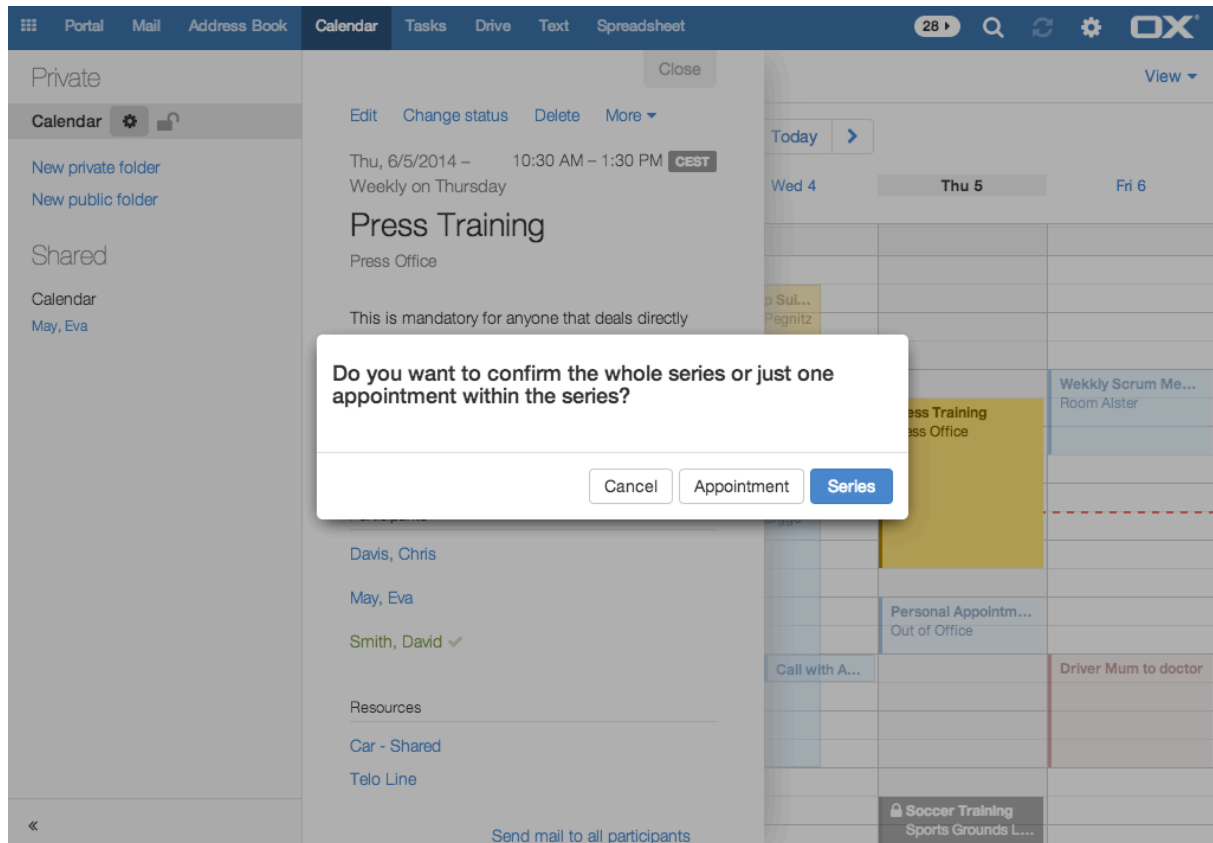
## 4.2 New calendar color scheme

Open-Xchange App Suite v7.6 now has a new default color scheme for calendar designed to provide better readability and clarity. The previous default color scheme is still available from the calendar view menu and can be activated by selecting the option "Dark Colors".



## 4.3 Confirmation Status for Single Recurrences

One of the main improvements for the OX Calendar is the option to change the confirmation status for single recurrences of repeating appointments. In the past it was only possible to change the confirmation for the complete recurrence. With 7.6 users can change the status for the complete series or single appointments.



## 4.4 Participant Summary in the Detail View

For appointments with a long list of participants it is necessary to provide an overview of the number of accepted, declined or tentative participants. With 7.6, this information is provided directly in the detail area of the appointment at the top of the participant lists.

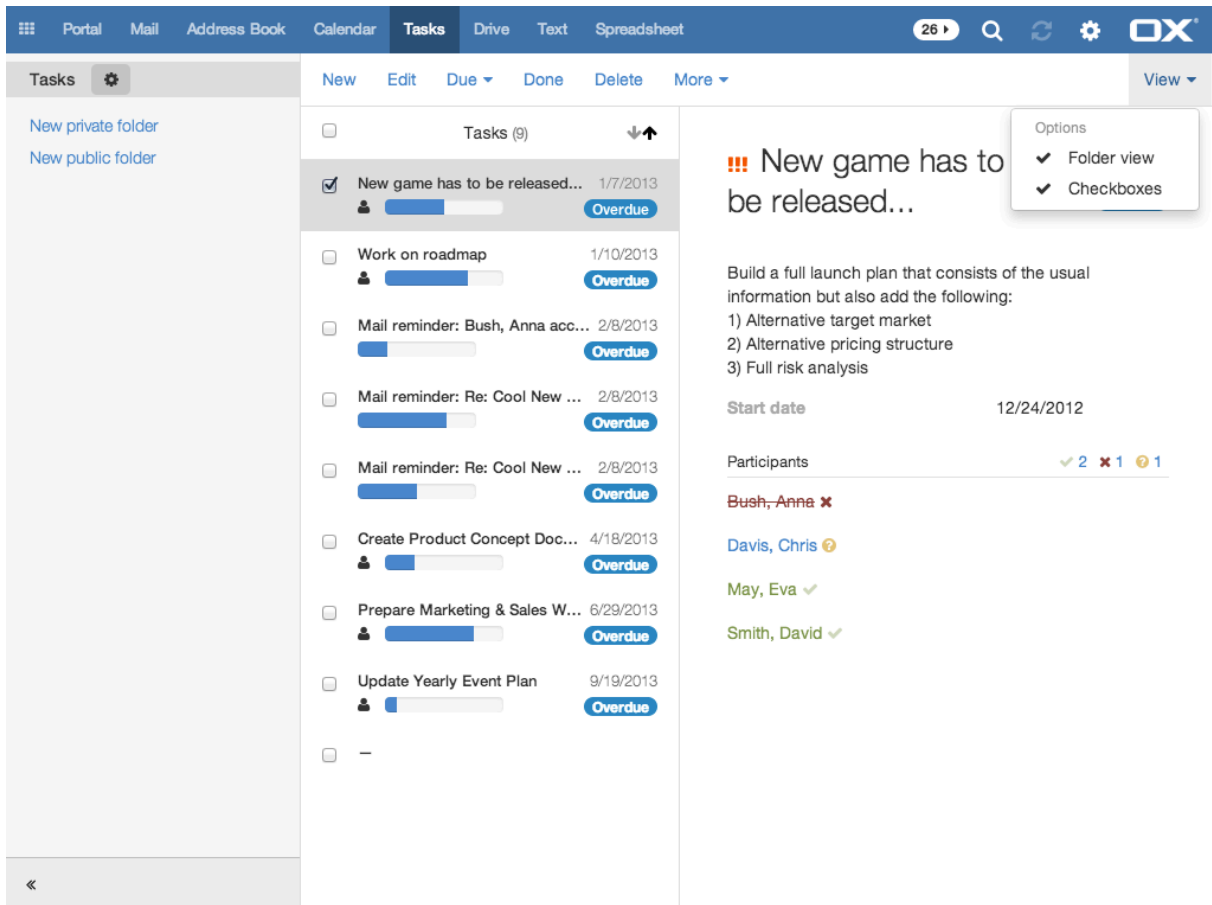
The screenshot displays a calendar interface with a top navigation bar containing 'Portal', 'Mail', 'Address Book', 'Calendar', 'Tasks', 'Drive', 'Text', and 'Spreadsheet'. The 'Calendar' tab is active. On the left, there is a sidebar with 'Private' and 'Shared' sections. The main content area shows the details of an appointment for Wednesday, June 4, 2014, from 9:30 AM to 12:00 PM CEST, titled 'Clarify Deliverables' in Room Alster. The appointment is recurring weekly on Wednesdays. The participants list includes Davis, Chris; Jones, Paul; May, Eva (with a green checkmark); and Smith, David (with a green checkmark). At the top of the list, there is a summary: '2' with a blue information icon and '2' with a green checkmark icon. Below the list, there are three action links: 'Send mail to all participants', 'Invite to new appointment', and 'Save as distribution list'. The 'Details' section at the bottom shows the organizer as May, Eva, the folder as 'Calendar', the creation date as Mon, 12/17/2012, and the modification date as Tue, 1/8/2013 by Smith, David. On the right, a calendar grid shows the appointment on Wednesday, Thursday, and Friday. Other appointments visible include 'Press Training' on Thursday, 'Personal Appointment' on Friday, and 'Soccer Training' on Saturday.

# 5 OX Task Enhancements and Design Updates

## 5.1 Updated Toolbar Concept

The new toolbar extends the toolbar concept into OX Tasks. The old toolbar, on the left side, is no longer available.

The new OX Task toolbar provides all necessary functions and menus directly above the content area of the application. Users see the following functions “New”, “Edit”, “Due”, “Done”, “Delete” and the menu “More” with “Print” and “Move”.



## 5.2 Open “View” drop-down

The reason for a dedicated view drop-down is that it contains some basic options that change the application layout. These options do not fit in the “More” drop-down, for example (and it would get crowded). And since we expect frequent usage it doesn't make sense to hide those options in a settings pane. Plus we no longer need dedicated buttons for toggling the folder view or the checkboxes inside the list view.

The “View” drop-down provides a new feature (familiar from Open-Xchange Server 6). You now have two layouts:

- Folder View activated
- Checkboxes activated

## 5.3 Edit Dialog expands automatically

In past versions of OX App Suite a common action like advancing the status of a task to "In progress" required clicking on edit and expanding the form. To improve usability the behavior is changed to expand edit dialog automatically if detailed information is already available.

## 5.4 Re-Design of the Edit Dialog of Tasks

In the past the tabulator style design for the edit dialog of tasks for “Participants”, “Attachments” and “Details” was used. This concept was not used in any of the other applications of the OX App Suite.

From 7.6 the detailed information will be shown on one page with the option to hide / un-hide this area as required.

The screenshot displays the 'Edit task' dialog in the OX App Suite. At the top, there is a navigation bar with various application icons and the OX logo. The dialog itself has a title bar with 'Edit task' and 'Discard' and 'Save' buttons. The main content area is divided into several sections:

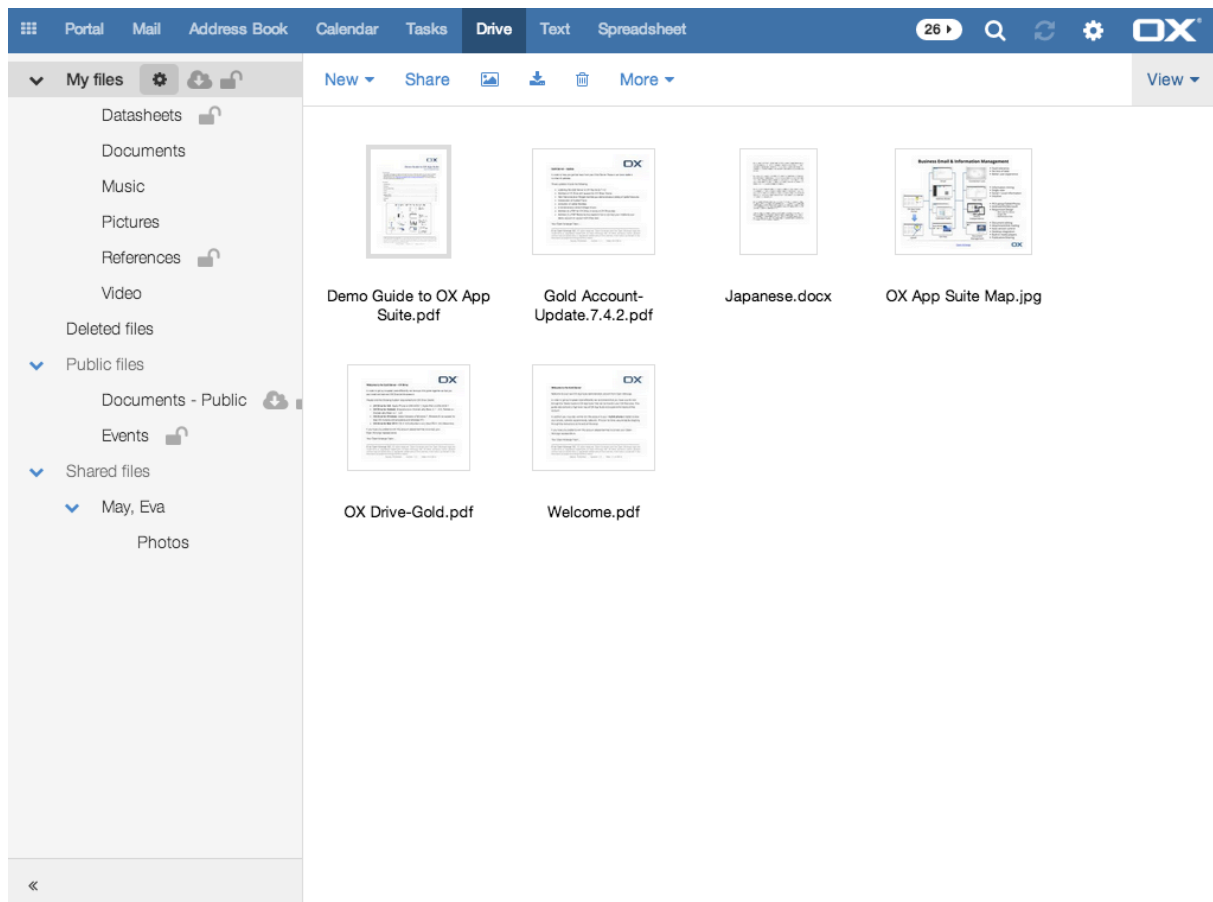
- Subject:** A text input field containing 'New game has to be released...'
- Description:** A larger text area containing the text: 'Build a full launch plan that consists of the usual information but also add the following: 1) Alternative target market 2) Alternative pricing structure 3) Full risk analysis'. Below this is a 'Collapse form' link.
- Start date:** A date picker showing '12/24/2012'.
- Due date:** A date picker showing '1/7/2013'.
- Repeat:** A checkbox that is currently unchecked.
- Remind me:** A dropdown menu.
- Reminder date:** A date picker and a time zone dropdown set to 'CEST'.
- Status:** A dropdown menu showing 'In progress'.
- Progress in %:** A progress indicator showing '50%' with minus and plus buttons.
- Priority:** A dropdown menu showing 'High'.
- Private:** A checkbox that is currently unchecked.
- Participants:** A list of four participants, each with a profile picture, name, and email address:
  - David Smith: david.smith.1002490@demo.ox.io
  - Anna Bush: anna.bush.1002490@demo.ox.io
  - Chris Davis: chris.davis.1002490@demo.ox.io
  - Eva May: eva.may.1002490@demo.ox.io

## 6 OX Drive Enhancements and Design Updates

### 6.1 Updated Toolbar Concept

The new toolbar extends the toolbar concept into OX Drive. The old toolbar, on the left side, is no longer available.

The new toolbar of the OX Drive app, provides all necessary functions and menu directly in the content area of the application. Users see the following functions “New”, “Share”, “Download”, “Delete” and the menu “More” with “Send by mail”, “Send as internal link”, “Show internal link”, “Move”, “Copy” and “Lock”.

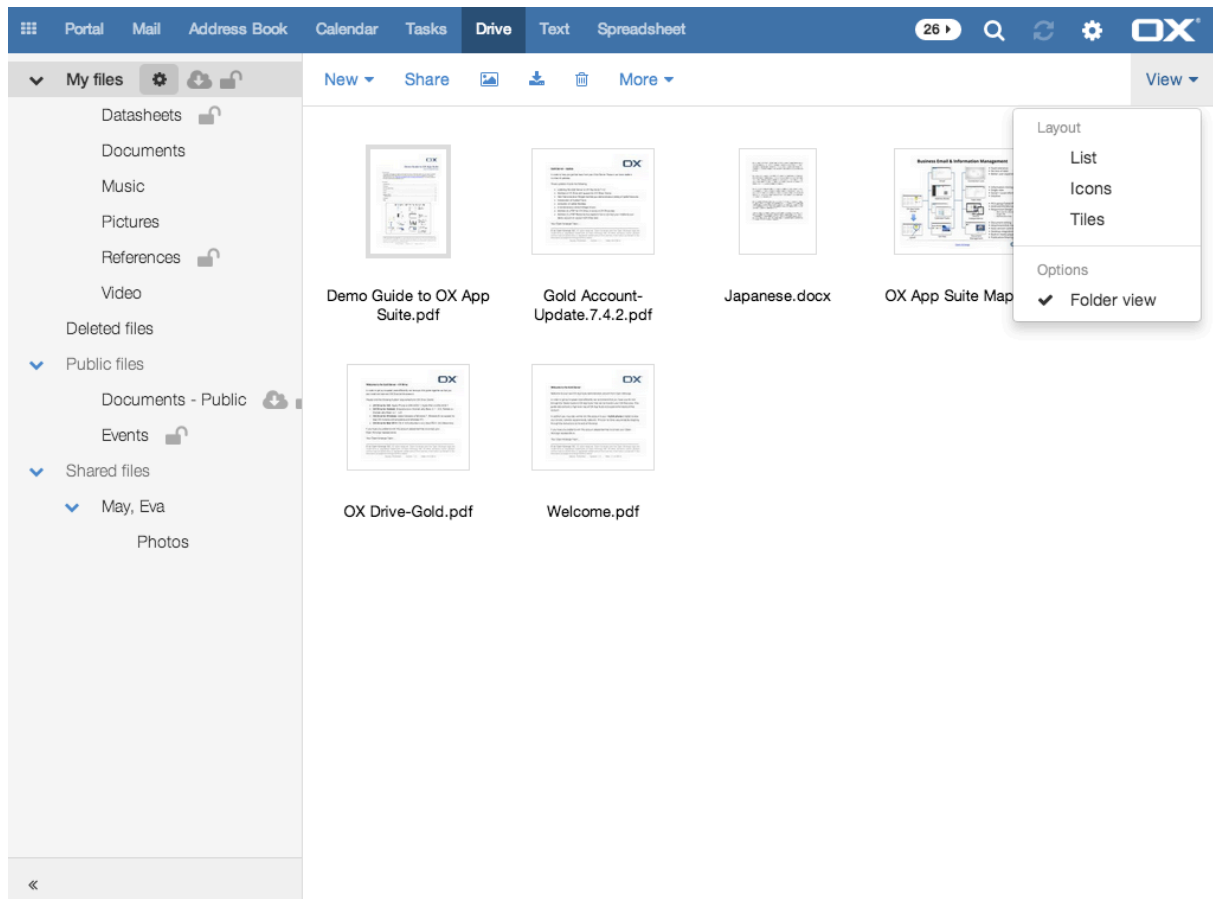


## 6.2 Open “View” drop-down

The reason for a dedicated view drop-down is that it contains some basic options that change the application layout. These options do not fit in the “More” drop-down, for example (and it would get crowded). And since we expect frequent usage it doesn’t make sense to hide those options in a settings pane. Plus we no longer need dedicated buttons for toggling the folder view or the checkboxes inside the list view.

The “View” drop-down provides a new feature (familiar from Open-Xchange Server 6). You now have four layouts:

- List
- Icons
- Tiles
- Folder view



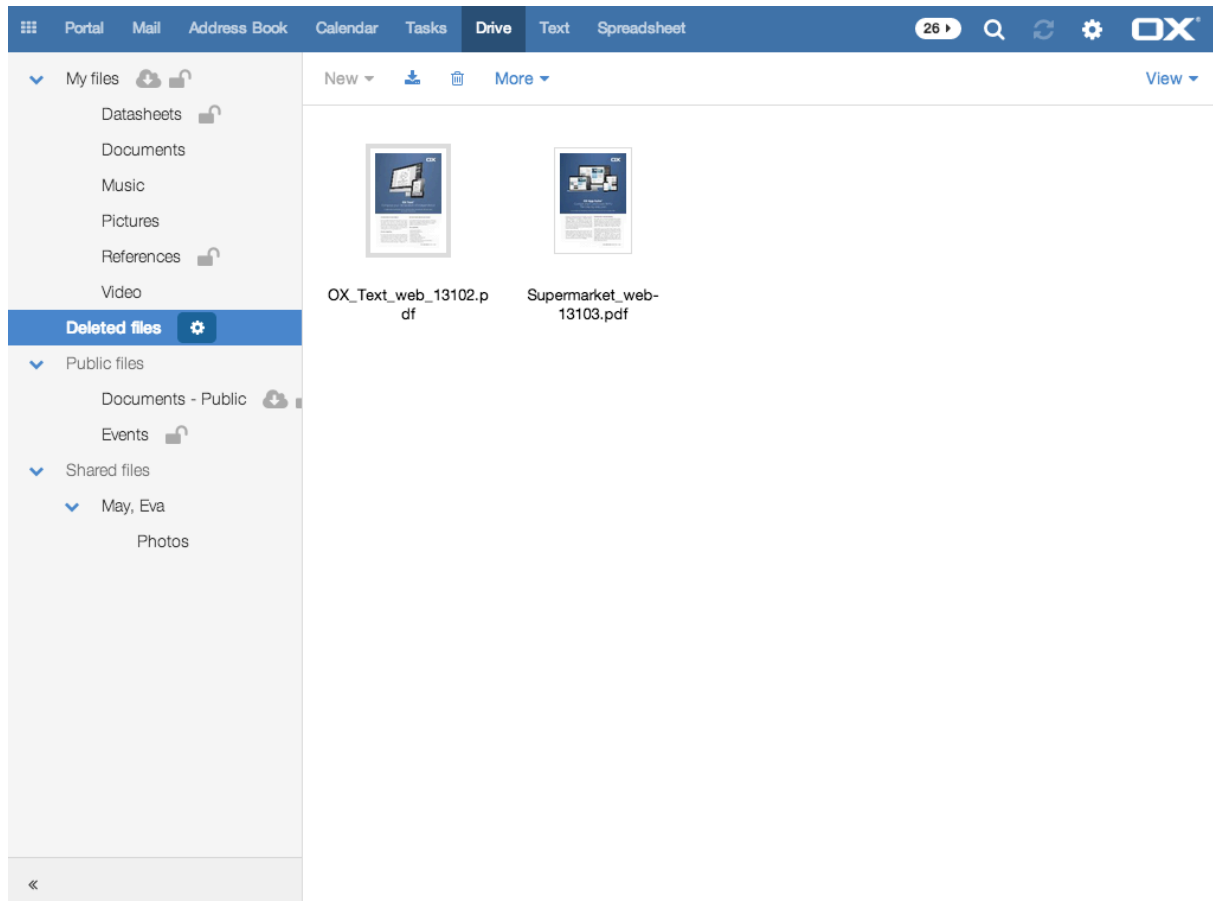


## 6.3 Document Trash for OX Drive

A new feature for OX Drive in 7.6 is a new folder with the name “Deleted files”. All deleted files from other folders will be saved in this new folder. Users then have the option to view deleted documents.

With the option “Empty folder” the user can delete all documents with one action.

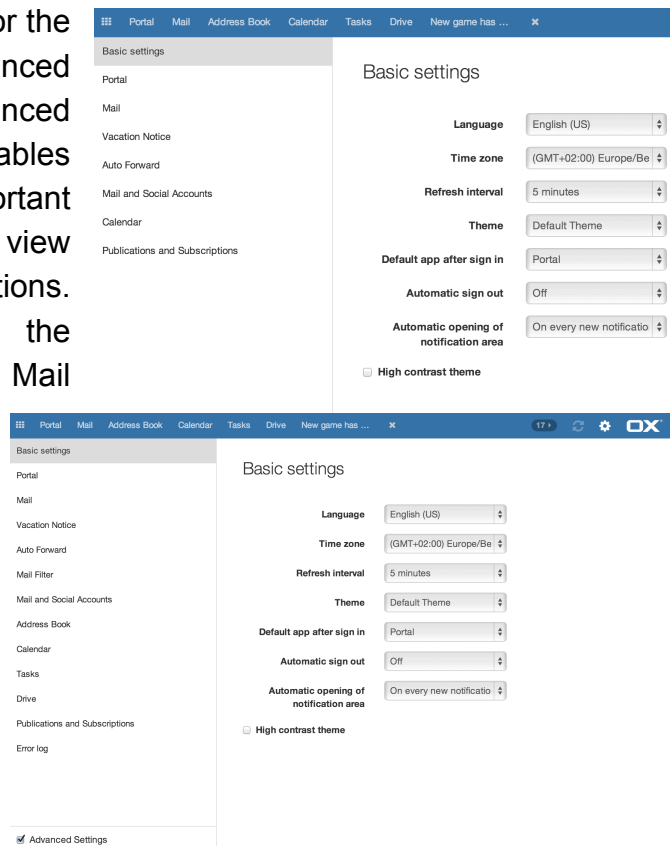
Publications and subscriptions are deleted when a folder is moved to trash, all folders moved to the trash will inherit the permissions of the underlying trash folder.



## 7 OX Settings Enhancements and Design Updates

### 7.1 “Advanced Mode” for User Settings

With the release of 7.6 it is possible for the user to enable or disable the advanced settings by selecting the advanced settings box. This improvement enables users to display the most important settings only. This helps improve the view on smaller devices and lower resolutions. By enabling the advanced mode the following user settings are displayed: Mail Filter, Tasks, Drive, Downloads and Error Log. All other settings are made available when Advanced Mode is disabled: for example: Basic settings, Portal, Mail, Vacation Notice, Auto Forward, Mail and Social Accounts, Calendar and Publications and Subscriptions.



### 7.2 Removal of OX Drive setting “Default view”

With release 7.6 we have decided to remove the setting “Default view” for the OX Drive application. Instead of a default setting, the setting will be set when the user selects a view mode in OX Drive directly. This selected view is now saved by application changes and logout. The user will see always the last used view for the OX Drive application.

### 7.3 Auto-Forward Improvement

OX App Suite v7.6 provides a new setting for the auto-forward at the user setting. In the past the function “Keep copy of the message” was already the default setting of

the auto-forward function. With the new version, users have the possibility to change this setting if it isn't necessary to keep a copy in the initial mail account.

The screenshot shows a web application interface with a blue header bar containing navigation links: Portal, Mail, Address Book, Calendar, Tasks, Drive, and a notification for 'New game has ...'. A left sidebar lists settings categories: Basic settings, Portal, Mail, Vacation Notice, Auto Forward (highlighted), Mail and Social Accounts, Calendar, and Publications and Subscriptions. The main content area is titled 'Auto Forward' and features a section 'Forward all incoming emails to this address' with a text input field containing 'paul@view.com'. Below this are two checkboxes: 'Keep a copy of the message' (checked) and 'Enabled' (unchecked).

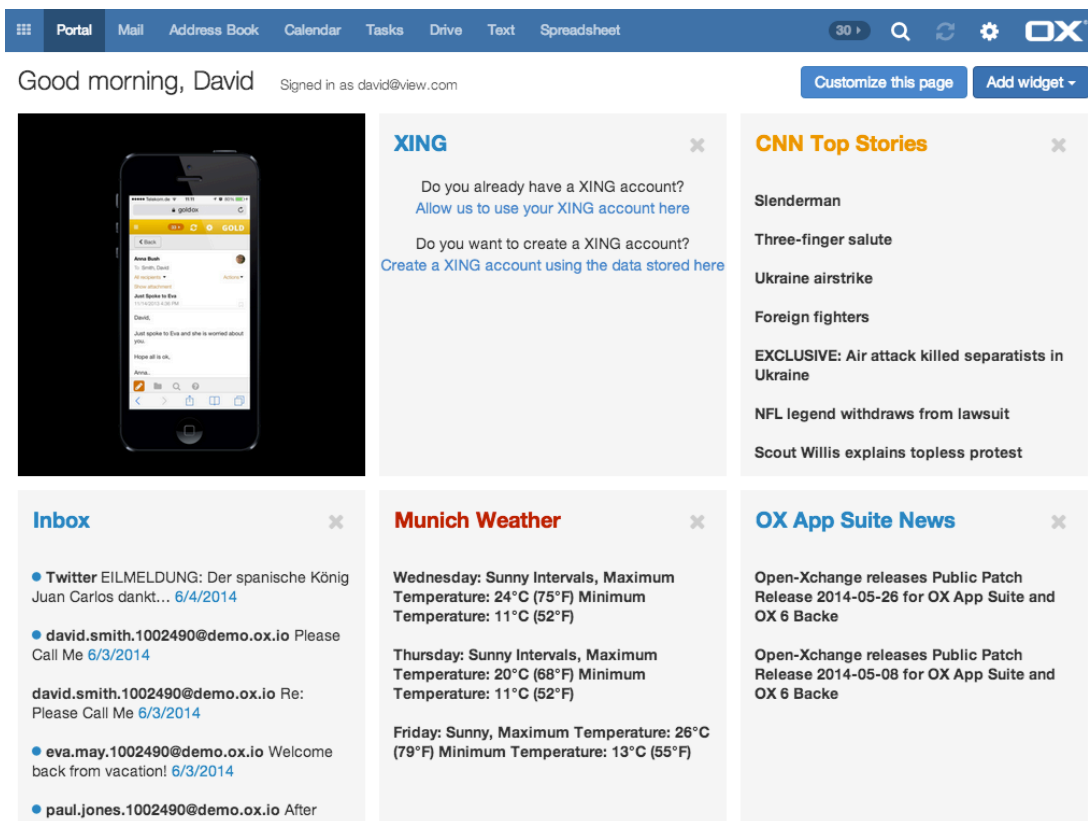
# 8 General Improvements and Design Changes

## 8.1 Xing-Integration

With release v7.6 integration is now possible with the social network Xing. The main integration point is the OX Portal, where it will be possible to activate a Xing widget. This is in addition to other social networks like Facebook, Twitter and LinkedIn. The widget will display the most recent messages from Xing. Depending on the network, additional functions are available, for example for posting or creating a message. To display news from your social networks simply add a new widget to the Portal. Users can change the settings at any time.

In addition the Xing-Widget provides the following functionality:

- Displaying the public Xing profile of an mail address in the Halo-View
- Synchronization of the Xing address book in a new personal contact folder
- The Xing newsfeed in the portal widget, plus posting of status information



## 8.2 New Default Theme

The new default theme provided with OX App Suite v7.6, has a “flat” top-bar. We just removed the background gradient and chose the same color that we use as selection background. Technically, the top-bar now makes extensive use of RGBA colors so that branding is easier. It’s enough to change a single color value to get a different top-bar.

## 8.3 High Contrast Mode

The visual change of the top-bar and the concept of flat design has also led to contrast changes. A white (slightly transparent) background is now used, and there is no special high contrast theme but a special high contrast mode.

The screenshot displays the OX App Suite Mail interface. At the top, there is a navigation bar with tabs for Portal, Mail (selected), Address Book, Calendar, Tasks, Drive, Text, and Spreadsheet. On the right side of this bar, there are icons for a notification badge (30), search, refresh, and settings. Below the navigation bar, there is a toolbar with 'Compose' and several icons for email actions (reply, reply all, forward, delete, flag, more). A 'View' dropdown menu is also present.

The main content area is split into two panes. The left pane shows a list of emails with columns for 'Select all', 'Sort by', sender, subject, and date. The selected email is from 'eva.may.1002490@demo.ox.io' with the subject 'Cool New Product'.

The right pane shows the detailed view of the selected email. The subject is 'Cool New Product'. The sender is 'eva.may.1002490@demo.ox.io' and the date is '6/3/2014 10:52 AM'. The recipients are 'David Smith', 'Chris Davis', and 'Eva May'. The email body contains the following text:

Hi Eva, hi David, hi Chris,

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness.

No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it?

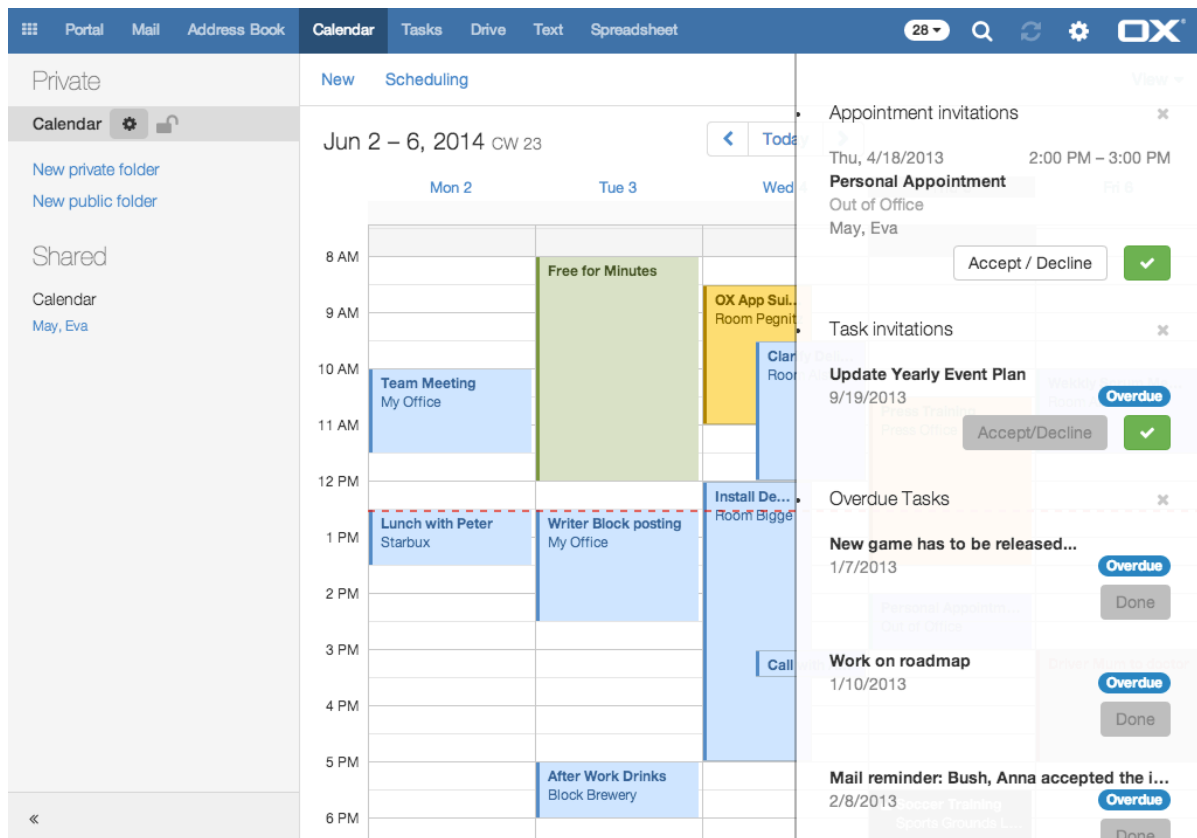
But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure? On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee.

Best regards,

Anna

## 8.4 New Notification Area Design

The visual change of the top-bar and the concept of flat design also affects the notification area. It also uses a white (slightly transparent) background now.



## 8.5 Hide Shared and Public Folders

One of the main features for OX Contact, OX Calendar and OX Tasks is the possibility to share or set public folder permissions for other users inside the OX App Suite environment. Other users will see the folders in their public or shared folder tree area.

With OX App Suite v7.6, the user can decide for himself if he wants to see the shared or public folders for the OX Contact, OX Calendar and OX Tasks folder tree.

This functionality is available for each folder menu by selecting “Hide” from the drop down menu. If the user clicks on this menu entry, the folder will be moved to the end of the tree as a subfolder of a new section “Hidden folders”. Of course, in this section the folder menu allows a user to un-hide previously hidden folders.

Portal Mail **Address Book** Calendar Tasks Drive Text Spreadsheet 29 Q [Settings] [OX]

Private

**Contacts** [Settings]

- Collected addresses
- Facebook Subscription
- New private folder
- New public folder

Public

- Global address book
- Hidden folders ▶

«

New Send mail Invite Edit Delete More View

Contacts (8)

B

- Bush, Anna**  
OMCA Corporation

D

- Dr. Davis, Chris**  
OMCA Corporation

J

- Jones, Paul**  
OMCA Corporation

M

- May, Eva**  
OMCA Corporation

O

- OMCA Team**  
Distribution list

S

- Dr. Smith, David**  
OMCA Corporation, Game Designer

**Bush, Anna**  
OMCA Corporation  
JavaScript Ninja & UI Designer

Job

Profession JavaScript Ninja & UI Designer  
Company OMCA Corporation

Mail and Messaging

Email 1 [anna.bush.1002490@demo.ox.io](mailto:anna.bush.1002490@demo.ox.io)

Home Address

Martinstraße 41  
57462 Olpe  
Germany  
[Google Maps™](#)

Show QR code

Portal Mail **Address Book** Calendar Tasks Drive Text Spreadsheet 29 Q [Settings] [OX]

Private

**Contacts** [Settings]

- Collected addresses
- Facebook Subscription
- New private folder
- New public folder

Public

- Global address book
- Hidden folders ▼
- Distribution Contacts
- Contacts
- [Bush, Anna](#)

«

New Send mail Invite Edit Delete More View

Contacts (8)

B

- Bush, Anna**  
OMCA Corporation

D

- Dr. Davis, Chris**  
OMCA Corporation

J

- Jones, Paul**  
OMCA Corporation

M

- May, Eva**  
OMCA Corporation

O

- OMCA Team**  
Distribution list

S

- Dr. Smith, David**  
OMCA Corporation, Game Designer

**Bush, Anna**  
OMCA Corporation  
JavaScript Ninja & UI Designer

Job

Profession JavaScript Ninja & UI Designer  
Company OMCA Corporation

Mail and Messaging

Email 1 [anna.bush.1002490@demo.ox.io](mailto:anna.bush.1002490@demo.ox.io)

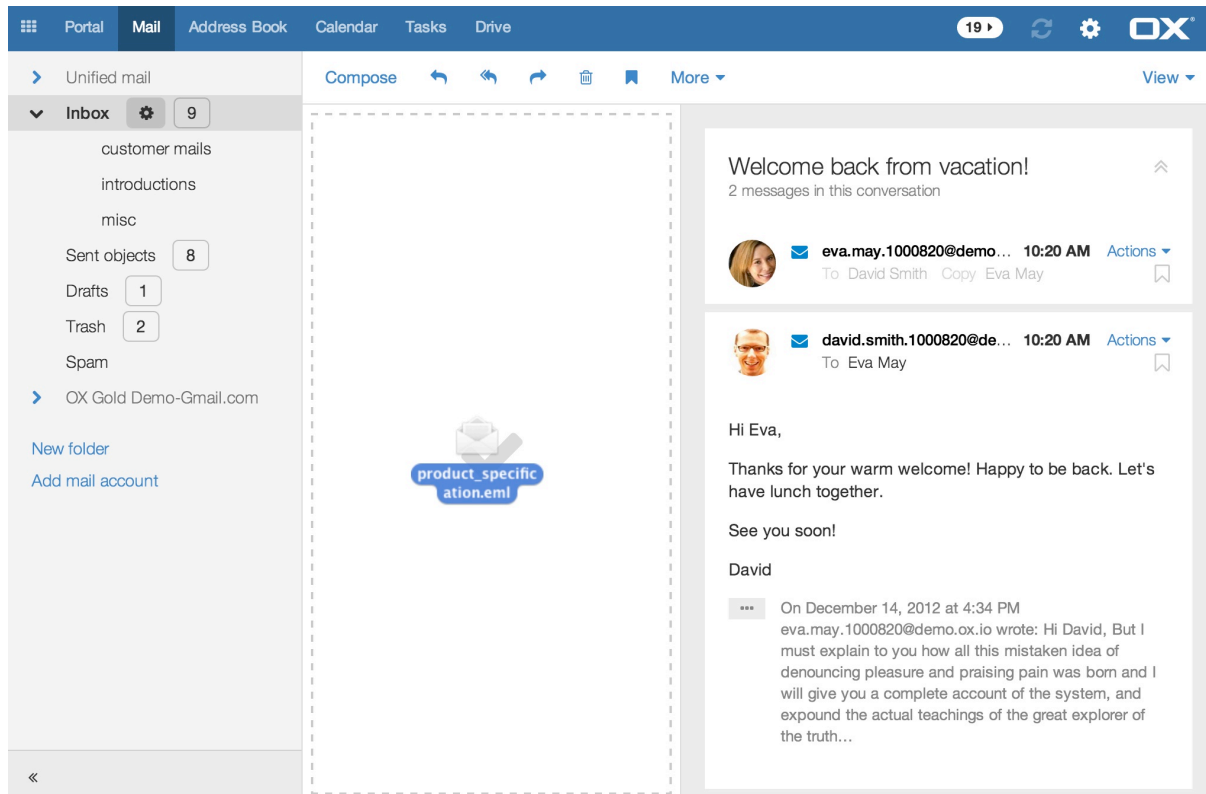
Home Address

Martinstraße 41  
57462 Olpe  
Germany  
[Google Maps™](#)

Show QR code

## 8.6 New in-place drop-zones

With OX App Suite v7.6 we will start to replace the full-screen drop-zones, for native files, by in-place drop-zones. Full-screen drop-zones for native files are rather unusual and visually too aggressive. The in-place drop-zones are cleaner, reflect common practice, and they simply look better.



## 8.7 New Unread State and Humanized Dates

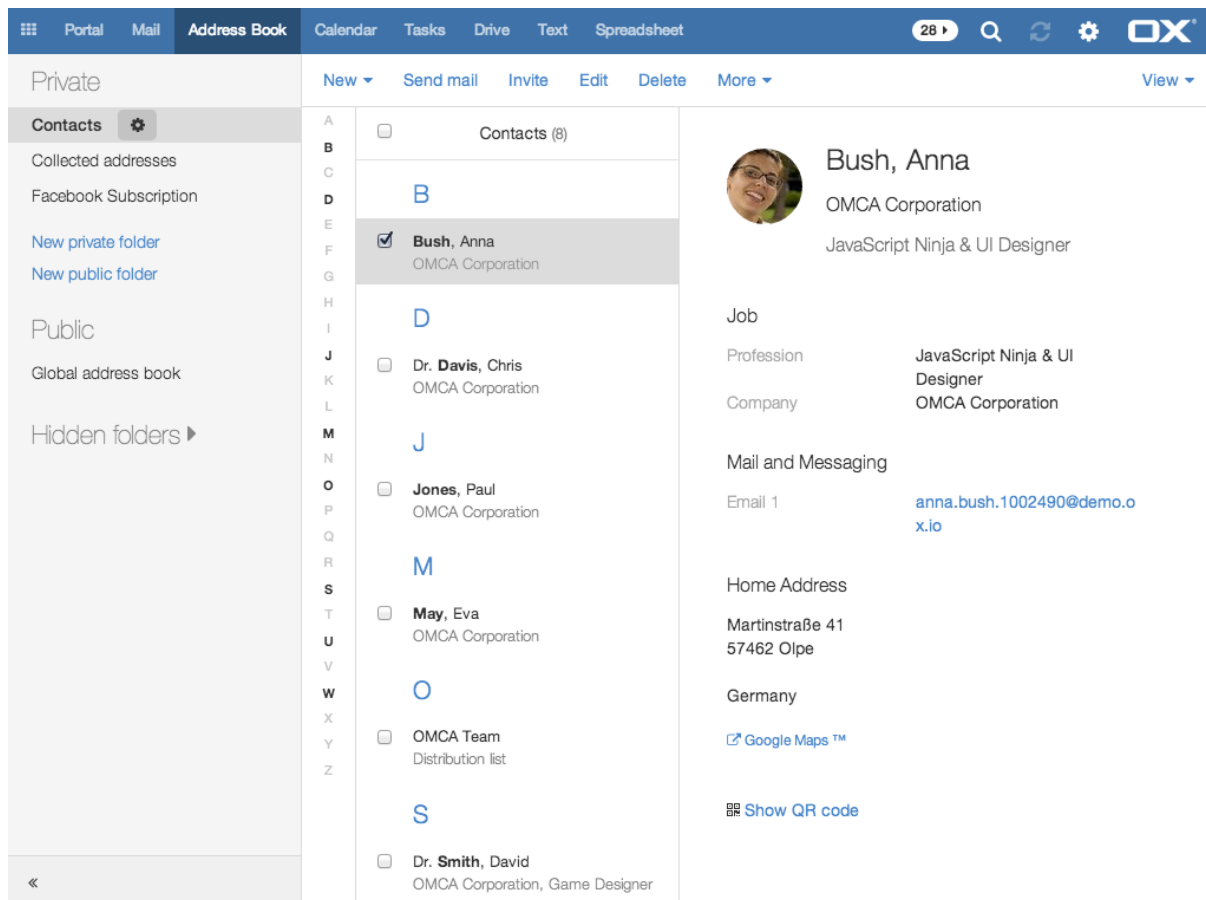
Unread messages are now indicated by a bold font for both sender, date and subject, and a blue envelope icon. This new look was introduced following a review of other popular email solutions.

In addition we have introduced so-called humanized dates in the mail list view (going back in time: Yesterday, Wednesday, Last Week etc.). In the detail view we still show the full date and time.



## 8.8 Bold last names in Address Book

Since we sort by last name this is now shown in bold font. This improves readability if names are displayed in order “First name last name”.



## 8.9 Select all Messages

Below the new toolbar there is now a “select all” checkbox to toggle the selection of all available messages. Please note: all visible messages, not all messages in the folder, are selected.

## 8.10 Welcome Page for Guided Tour

With OX App Suite v7.6, we have introduced a welcome dropdown for the Guided Tours. The Welcome drop down will inform users about the different tours for the various applications.

## 9 Search Improvements of OX App Suite

### 9.1 General Implementation

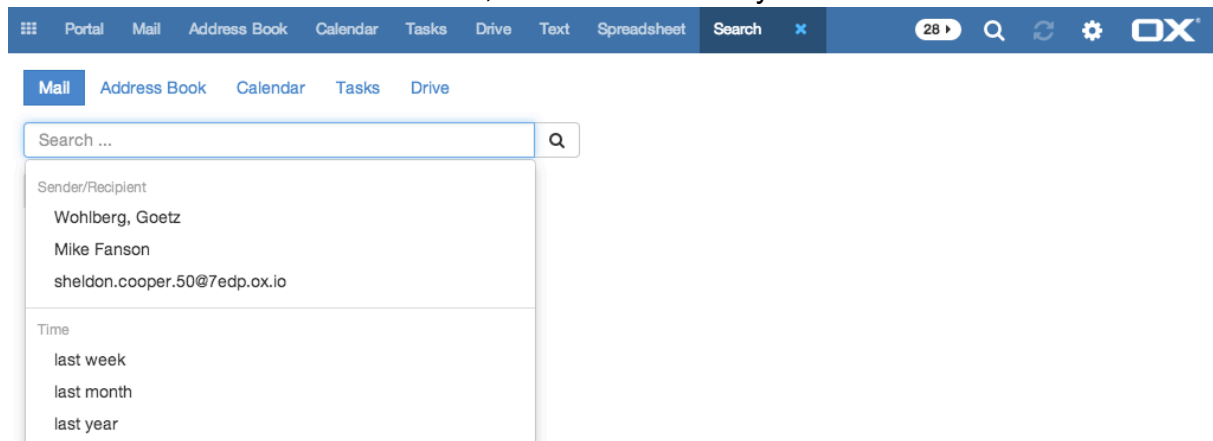
With release 7.6 we have implemented the search frontend within OX App Suite as a separate overview page. The user can link directly to this page from within different applications and define their search parameters. From this page it is also possible to start new search requests for all the other available apps.

### 9.2 OX Mail Search

#### 9.2.1 OX Mail Web Frontend Search

A user can now define a number of different search criteria. From the Email Menu the search criteria are subdivided into search term in emails, subject or mail text.

A further criterion is the related time frame. This means, the user can choose between the time frame last week, last month or last year.



## 9.2.2 Cross-folder full text Search with Dovecot

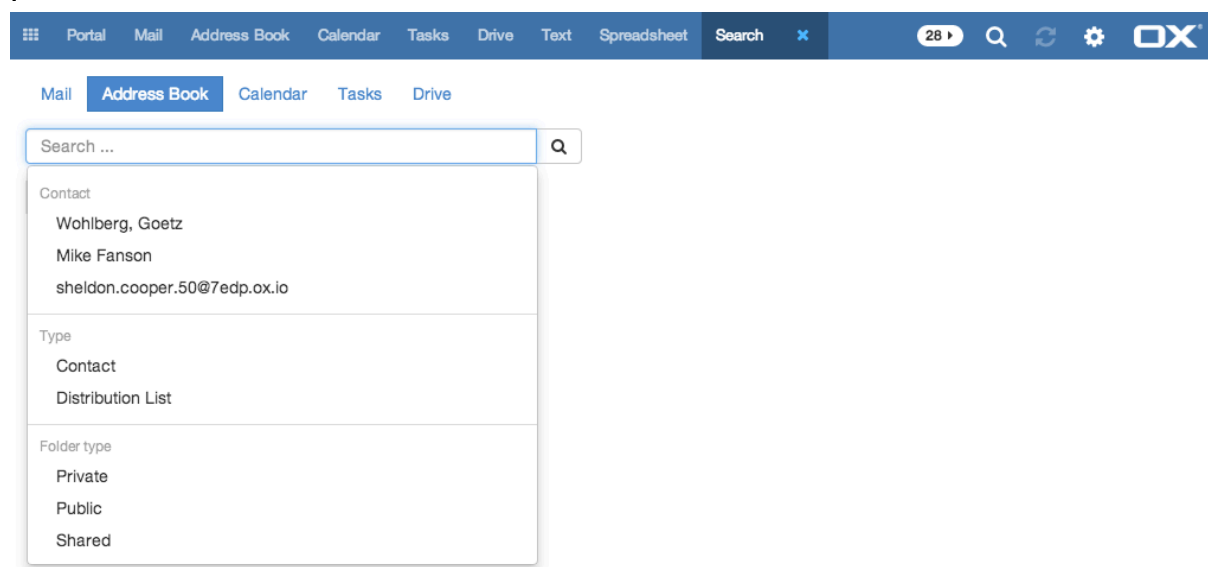
With OX App Suite v7.6, Open-Xchange has introduced a new search API and the corresponding extension for OX App Suite. This enables full text and cross-folder search capabilities as provided by Dovecot.

To use the cross-folder full text search it is assumed that the environment is working with a Dovecot installation as the primary mail backend for the OX App Suite installation.

## 9.3 OX Address Book Search

OX Address Book now has extended search capabilities. The search criteria are subdivided into contact name, type (contact or distribution list) or location (email addresses, phone numbers or addresses).

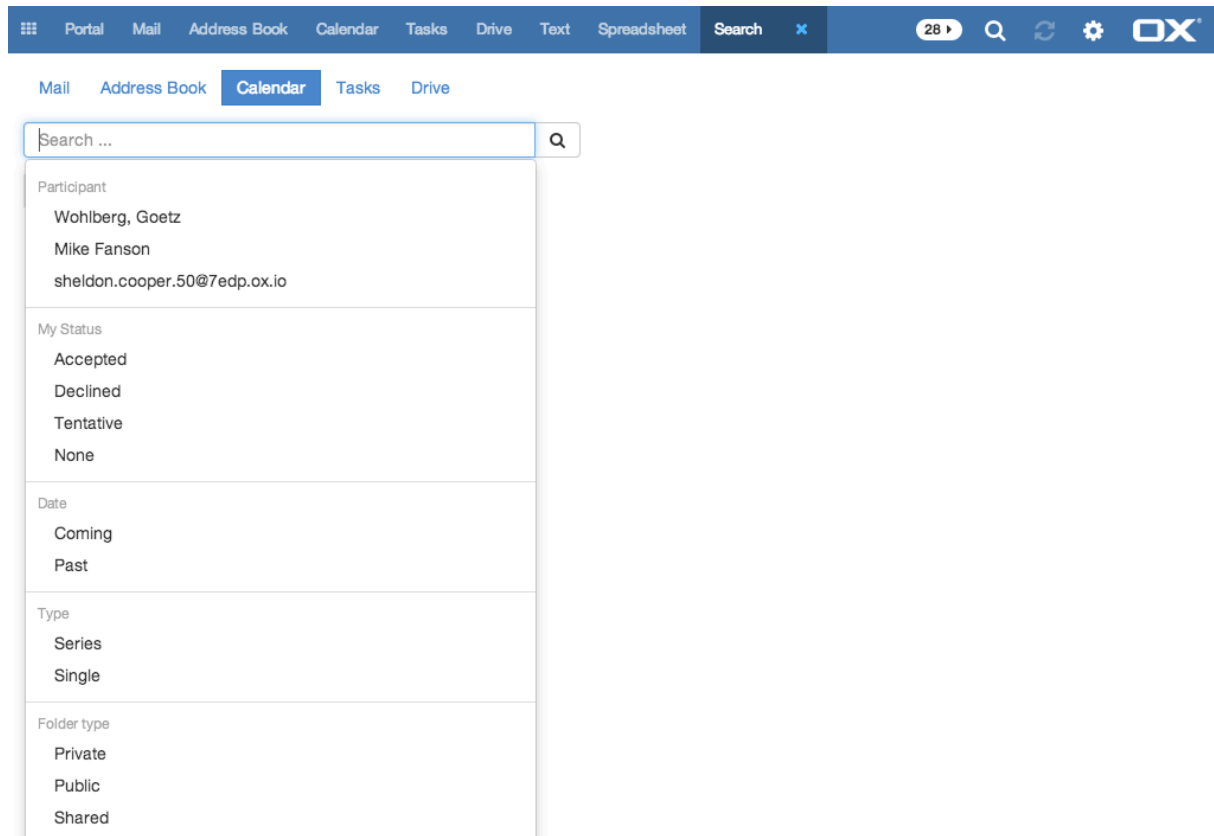
Additionally, the user can decide the folder location for the search for example Private, Public or Shared folders.



## 9.4 OX Calendar Search

OX Calendar search capabilities have also been enhanced. The search criteria are subdivided into Participant, Status (Accepted, Declined, Tentative, None) Date (Coming, Past) and Type (single or Series).

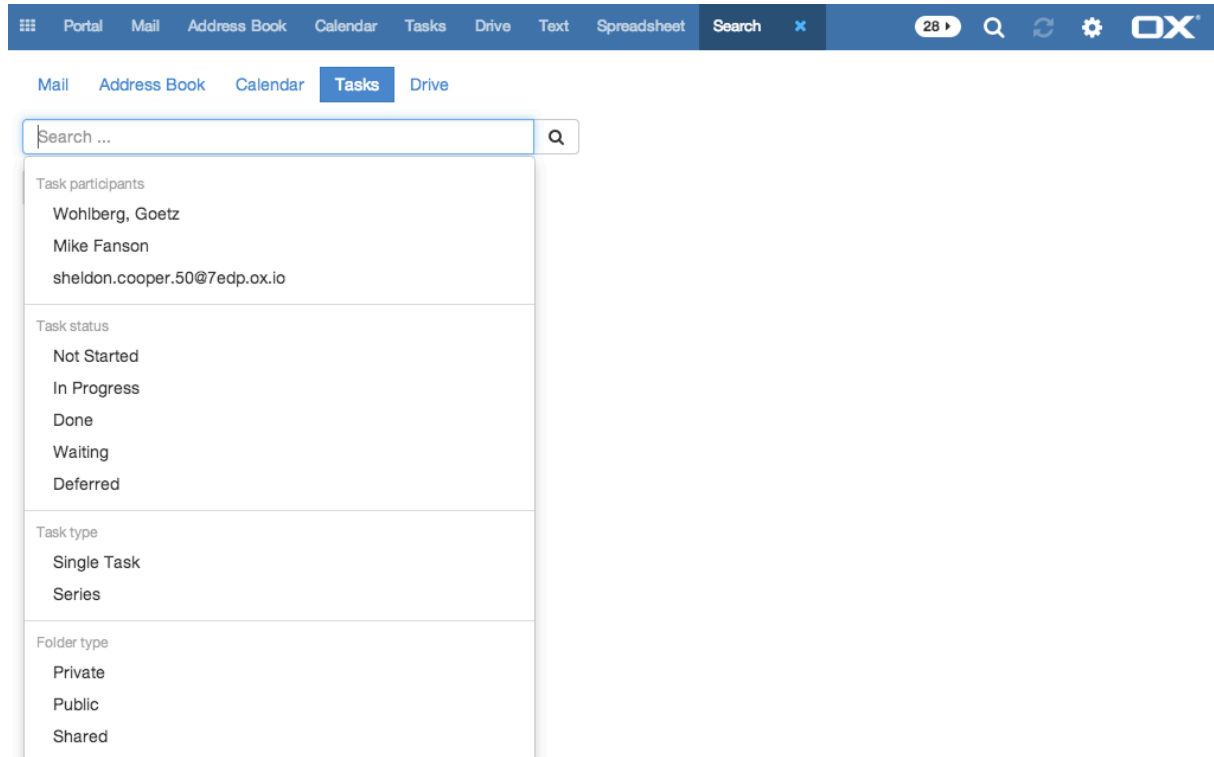
In addition appointments can be searched on subject, description, location, attachment name or for the display name (for example Product Team Meeting).



## 9.5 OX Task Search

OX Task search capabilities have also been enhanced. The search criteria are subdivided into Participant, Status (Not Started, In Progress, Done, Waiting or Deferred) and Task Type (Single or Series) (see the image below)

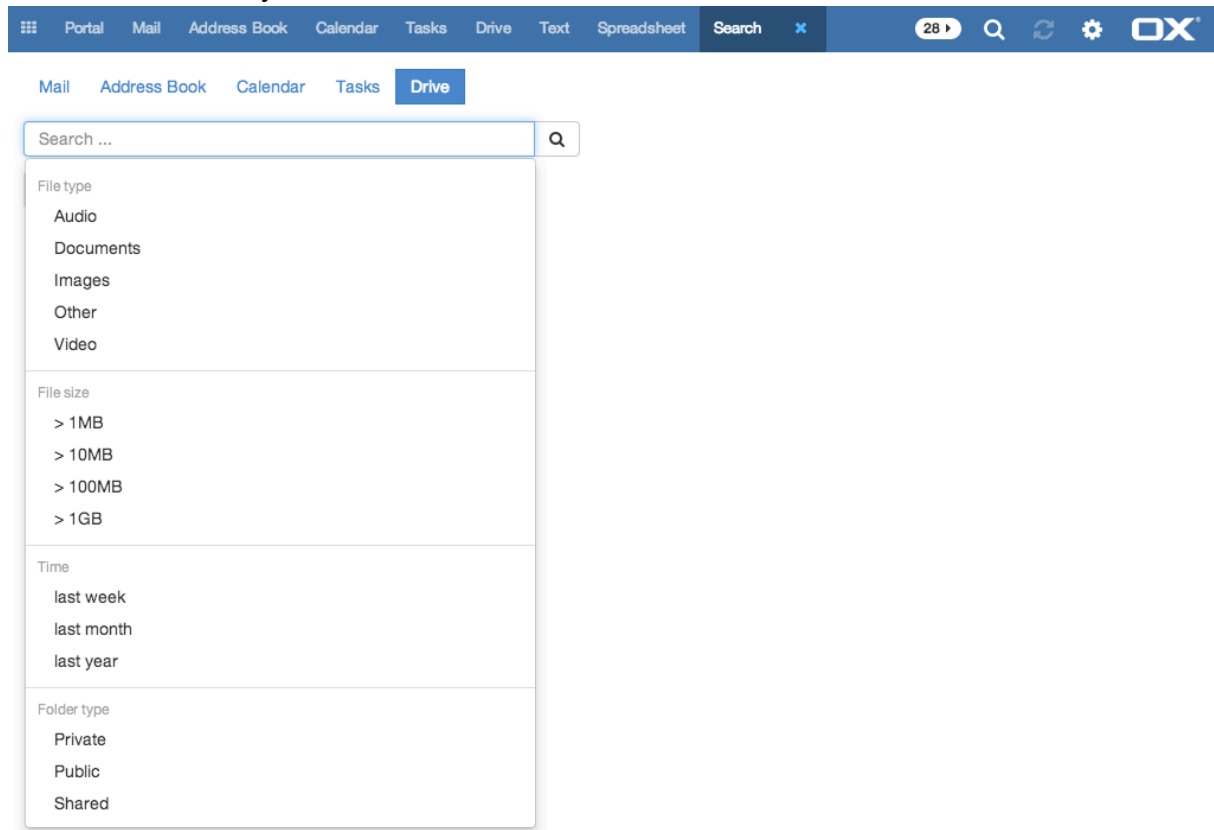
Search can also take place based on tasks attributes such as, title, description or attachment name. Additionally the user can search for the display name of the task participants, or in Public or Private Task folders.



## 9.6 OX Drive Search

New to OX App Suite in 7.6 is OX Drive search capabilities. The search criteria are subdivided into File Type (Audio, Documents, Images, Other or Video), Folder Type (Public, Private or Shared) or size (>1MB, >10MB, >100MB and >1GB)

The user can also search based on following criteria: file name, file description and file content. In addition it is also possible to search based on the criteria last week, last month or last year.



## 10      **Pagination**

To improve the performance on different devices, Open-Xchange has introduced Pagination. This means we load email in small chunks or [pages](#) (30 emails right now). This is significantly faster than fetching all the IDs of a folder followed by fetching header data (from, subject, received data, flags, etc.) in another request. That's two requests to wait for, lots of data to download, lots of data to parse, and lots of data to store in memory. Performance is of course bad on slow connections and slow devices. Technically this has a huge impact on the internal architecture of the web frontend. The users don't see this but they will definitely recognize the performance increase and the much better responsiveness (e.g. when removing items). In OX App Suite v7.6 pagination will be restricted to email. In addition there are other performance optimizations to accelerate web frontend start-up.

## **11 Administration, technical extensions, plug-ins, etc.**

### **11.1 Configuration Value Change without Restart**

With the release of OX App Suite v7.6, it is now possible to change configuration values without a restart of the complete system. Information about different configurations is available in the v7.6 administration guide.

### **11.2 Currencies for Task are part of Property File**

In OX App Suite v7.4.2, there were only a fixed set of currencies available when creating a task. Customers in different locations may need to extend this list for their local currencies, so this is made configurable with OX App Suite v7.6.

A new setting property `io.ox/tasks/currencies` has been created which contains an array of currency strings.

### **11.3 Upsell capabilities on Publish and Subscribe Functions**

With OX App Suite v7.6, the right click menu in the folder tree now triggers upsell when clicking on publish/subscribe. Additionally the top bar link in OX Drive and an inline link in file detail view can also be used to trigger upsell.

More configuration information can be found at:  
[http://oxpedia.org/wiki/index.php?title=AppSuite:Upsell\\_tools](http://oxpedia.org/wiki/index.php?title=AppSuite:Upsell_tools)



## 12 OX Documents Enhancements and Design Updates

### 12.1 Design Changes in Icon Pane

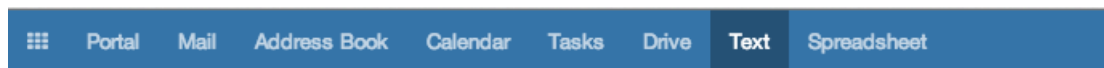
The OX Documents icon pane adopts the new flat design (see chapter 1.1) of OX App Suite with white background and less chrome.

Saddle	Bike 1	Bike 2	Bike 3	Bike 1	Total
Week 1	23 €	14 €	45 €	23 €	82
Week 2	17 €	101 €	99 €	17 €	217
Week 3	19 €	32 €	65 €	19 €	116
Week 4	33 €	45 €	88 €	33 €	166
Week 5	21 €	67 €	102 €	21 €	190
Week 6	11 €	34 €	23 €	11 €	68
Week 7	21 €	65 €	45 €	21 €	131
Week 8	14 €	34 €	23 €	14 €	71
Week 9	43 €	22 €	62 €	43 €	127
	22 €	46 €	61 €	22 €	130 €

Gearsets	Mountain	Trial
Week 1	15	33
Week 2	11	23
Week 3	9	34
Week 4	14	22
Week 5	21	21
Week 6	11	16
Week 7	13	18
Week 8	14	14
Week 9	21	13
	129	194

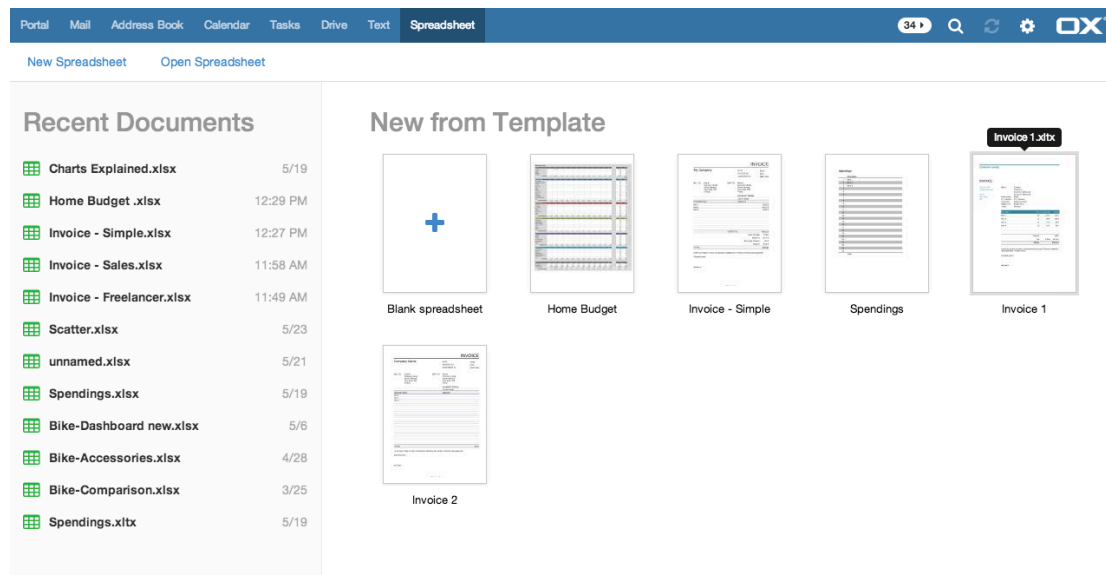
### 12.2 OX Text and OX Spreadsheet in Top Menu Bar

Since the introduction of OX Text and OX Spreadsheet editing capabilities for text and spreadsheet documents are available within OX Drive. To allow faster access and an application-centric workflow OX Text and OX Spreadsheet can now be selected in the top bar of OX App Suite.



## 12.3 New OX Text and OX Spreadsheet Landing Page

Both applications open with a new document-oriented view which shows a list of recently used documents and templates. Users can also create new documents or open an existing document from OX Drive.



### 12.3.1 Recent documents

This list contains the documents that the user has opened recently. The date shows the last modification date of the document, not the last opened date. On large monitor screens the number of documents in the list is limited by the vertical screen size. On small devices the list displays ten documents.

### 12.3.2 New from templates

A template is a predesigned document that contains formatting, styles and placeholder text (or cells in spreadsheets). Templates allow users to save time during the document creation as they can focus on the content and leave the formatting as it is already predefined in the template. OX Text and OX Spreadsheet include a number of ready-to-use templates for letters, memos, resumes, home budget, etc. These templates are made available in a global directory. Users can also create their own templates (see below).

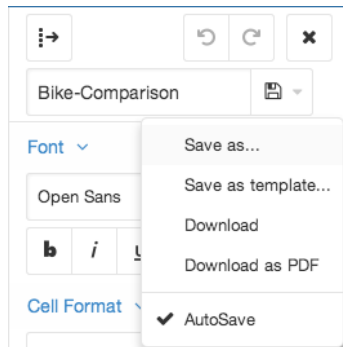
Clicking a template triggers the following operations:

- Create a copy of the selected template under a new name (“unnamed”)

- Copy the new document into the “My files” folder
- Open the document in the editor

## 12.4 Save as

A new file function feature now offers a “Save as ...” option, which creates a duplicate file under a different name.



“Save as ...” triggers the following operations:

- Create a copy of the current document under a new name
- Close the current document
- Open the new document

Note: “Save as ...” in Desktop products is often used to create multiple versions of the same file under different names. OX App Suite has a built-in versioning feature that automatically keeps previous versions of a document, and allow you to restore and manage them as needed.

## 12.5 Save as template

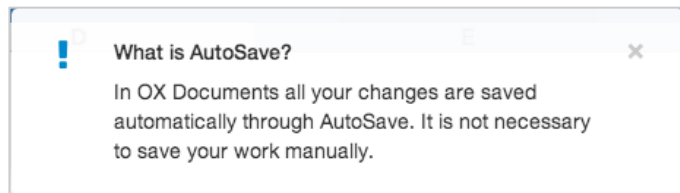
It is now possible to create templates from OX Text and OX Spreadsheet which will be automatically added to the existing list of templates. Templates are stored in the Microsoft or OpenOffice template format (dotx or ott for text documents and xltx or ots for spreadsheets) in the user’s “My files” directory.

“Save as template ...” triggers the following operations:

- Create a template out of the current document under a new name and change the file extension
- Copy the template to “My files”
- Display the new template under “New from Template”

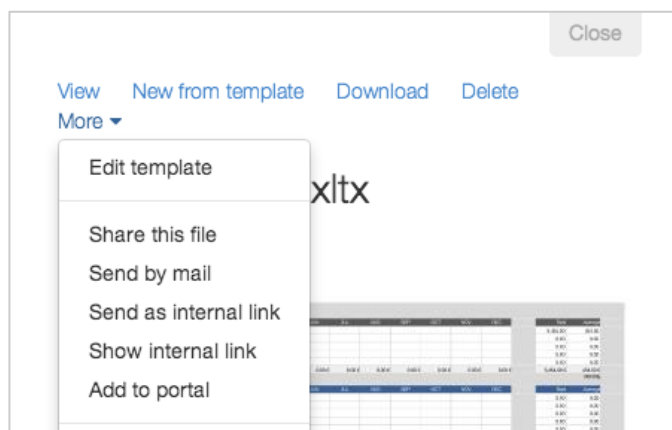
## 12.6 AutoSave

When you open a document for editing in OX Text or OX Spreadsheet, the document is automatically saved as you work. This AutoSave feature means users don't need to save their work manually. Therefore users cannot switch AutoSave off. If a user tries to disable it in the new file function drop down, the following info will be displayed:



## 12.7 Editing templates

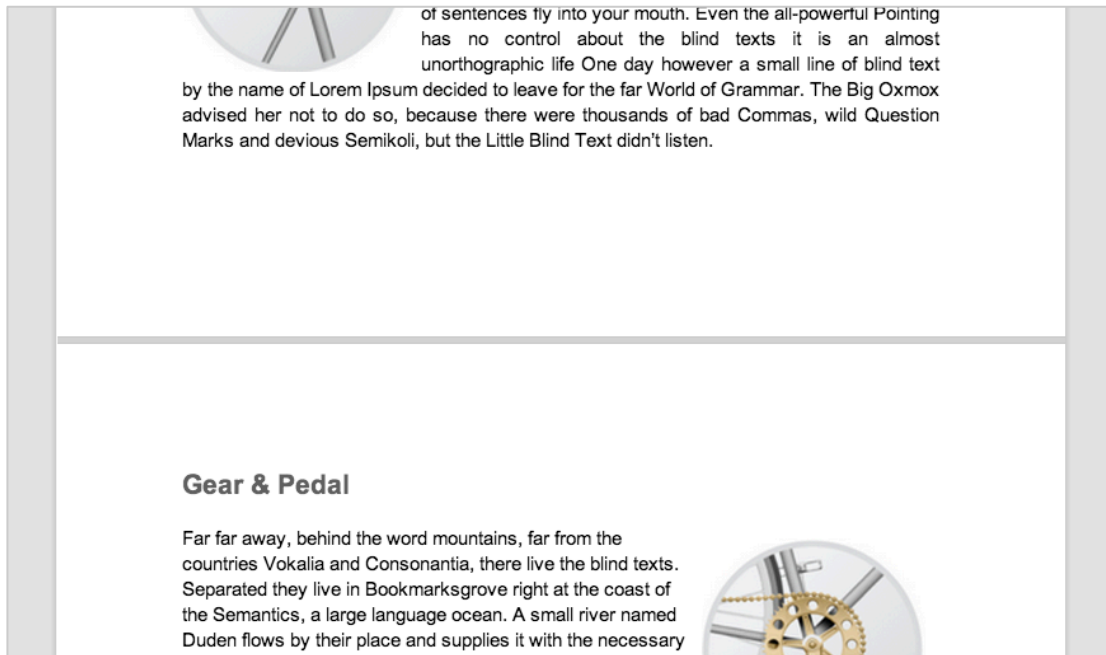
When you click a template in Drive, you have the option to use (“New from template”) or edit the template. Editing the template will not change the file type of the document.



## 13 OX Text Enhancements

### 13.1 Page view

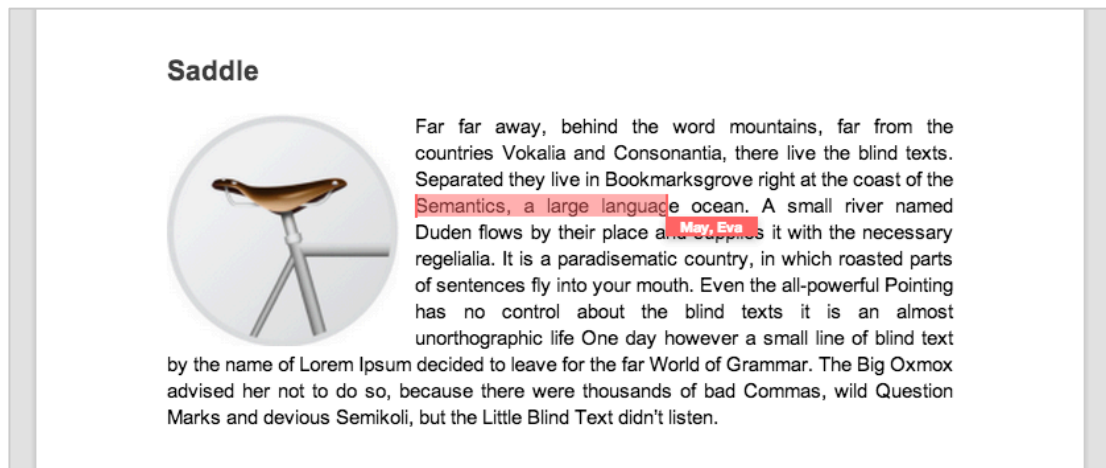
OX Text now displays documents broken into pages. This view gives users a better idea of where a page ends and the next one begins. Previously, OX Text displayed documents as a single HTML page.



Note: On devices with screen sizes smaller than seven inches the page break is not shown.

## 13.2 See co-workers editing

When users work together on the same document, they can now see a cursor in a bright color at whatever point the other user is editing. Hovering over the cursor also shows the name of the user. The name is displayed under the current line to allow better readability of the document. Each user is represented by a different color. To avoid confusion and conflicting changes overriding each other, only one user has edit rights. Edit rights can be transferred at any time to any user.



Users with read-only access cannot edit the document but can do selections in the document, which can be seen by all other collaborators.

## 13.3 Performance improvements

- Overall performance  
The overall performance of a number of actions has improved significantly. Table operations, cursor travelling, typing, list handling, and many more operations are now much faster than in previous versions of OX Text.
- Load document  
To improve the document load performance after the initial load, OX Text is now able to store documents in the local storage of the browser. This allows a much faster second load of the document (up to 10 times faster for larger documents). This behaviour is only enabled if the option "Stay signed in" during the Login is checked. After signing out all data in the local storage will be deleted.
- Clipboard performance  
The clipboard performance is now up to 5 times faster especially when pasting large amounts of data. A progress bar gives feedback to the user.

## 14 OX Spreadsheet Enhancements

### 14.1 Creating and editing charts

Users can now illustrate their data and create different types of charts with various chart options. OX Spreadsheets supports the following chart types: bar charts, pie charts, donut charts, line charts, bubble charts, area charts and scatter charts.



All chart options like colors, styles, titles, legend, etc. can easily be switched on and off with just a few clicks and without a long search for the various options.

Labels ▾

Chart title

X axis title

Y axis title

X labels     Y labels

X axis line     Y axis line

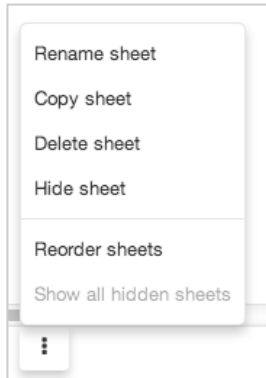
X grid     Y grid

Vary colors by point

Data labels    Legend ▾

## 14.2 Copy sheets

Sheets can now easily be copied into a new sheet.



## 14.3 Zoom factor in sheets

Each worksheet can now have its own zoom factor, which is saved whenever the spreadsheet is saved. So if the user sets the zoom factor, then saves the document, the sheet will display with the same zoom factor the next time the spreadsheet is opened. The same applies for the active sheet, active cell and scroll position.

## 14.4 Turn off gridlines

Gridlines in spreadsheets can be quite distracting. You can now show or hide gridlines in OX Spreadsheet by checking or unchecking the gridline button.

## 14.5 Performance improvements

- **Painting**  
Gridlines in spreadsheets are now painted independently from the cell contents in one step. This gives users the impression that the grid is immediately visible. Also cell content is painted dramatically faster (especially for Internet Explorer).
- **Scrolling**  
To allow smoother scrolling OX Spreadsheet is now able to cache cell content. Accessing cached data when scrolling is significantly faster than always retrieving data from the server.