Collabora Online: Secure on-premise collaborative editing

By Michael Meeks
General Manager, Collabora Productivity
@mmeeks @CollaboraOffice

“Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls...” - Jeremiah 6:16
Collabora Online
Built with awesome LibreOffice Technology
Rich, secure, interoperable collaborative documents, on-premise.
Development: at pace
the last year
Collabora Online Development Edition 6.4

Get your own online Office Suite up and running at home with CODE!

The development edition is aimed at home users and contains many of the latest and greatest developments. We want as many people as possible to try it out and get back control of their own online documents. We’d also love to get people involved in our efforts to make Online even better. So download Collabora Online Development Edition, enjoy using it at home.

CODE v6.4 – A leap in usability & Numbering

CODE v6.4 > CODE v4.2.7
Eclectic Notebookbar UX choices: to taste

Can collapse to just a menu ...
Classic mode retained: configurable & default ...
Online commits
By affiliation (last year)

Collabora

3218
97%

Others
5

CB
15

1&1
21

Volunteers
28

PDF Search, Collaboration & Annotation
Real Secure View of PDFs send only **pixels** ...

- Enable Secure View
- Set default share permissions for all users (available for shares without edit permission)
- can print/export
- Secure View (with watermarks)

Set watermark text for Secure View. To include the user email address dynamically, use the {viewer-email} variable. Click outside the text field to save.

Strictly confidential. Only for {viewer-email}

Granular permissions
- Edit, Print, Share, Download
- Watermarked PDFs if print allowed.

collaboraonline.com
Online 6.4.x ...

*rapid fire*

*incremental goodness*
Improved chart editing sidebar functionality
Calc: Improved sheet movement:

MOVE/COPY SHEET

Action
- Move
- Copy

Location
- Insert before
  - Counting Totals
  - Details, People
- Chart

New name
- Counting Totals

Help  Cancel  OK
Calc: customize & create Pivot Tables

*SELECT SOURCE*
- Current selection
- Named range:

*PIVOT TABLE LAYOUT*
- **FILTERS:**
  - Country

- **COLUMN FIELDS:**
  - Data

- **AVAILABLE FIELDS:**
  - Country
  - Size
  - Orchards count
  - Apple & Pear Trees
  - Peach & Apricot Trees
  - Olive Trees

- **ROW FIELDS:**
  - Country

- **DATA FIELDS:**
  - Sum - Apple & Pear Trees

*DRAG THE ITEMS INTO THE DESIRED POSITION*
- Options
- Source and Destination

*SOURCE*
- Named range:

*DESTINATION*
- New sheet
- Named range:
- Selection: $'Sorted Data'!B$3:$G$75

*HELP*
Calc: define & manage range names & print ranges
## Calc: Statistical tools for data analysis

### Sampling

### Descriptive Statistics

### Analysis of Variance (ANOVA)

### Correlation

### Covariance

### Exponential Smoothing

### Moving Average

### Regression

### Paired t-test

### F-test

### Z-test
The pieces you can’t see

Performance

- 20%+ faster rendering time
- Faster interactive editing of cells
- Bind-mounting of document jails (instead of hard-linking)
- Improved watermark caching
- Slide content pre-fetching
- On-demand slide thumbnail fetching.
- Significant PDF rendering improvements
- Significant thumbnail / download speedups

Misc

- iOS multi-document support
- Substantial cypress automated test coverage.
- Cluster debugging / warnings ... check matching ServerIds

And much much more ...

- 3600+ commits.
- Innumerable bug-fixes & improvements
UX integration:

Letting you dress your your integration to match (cf. blog)
Getting style guide: a how-to ...
ui_defaults: posted with the iframe:

<input name="ui_defaults" value="TextRuler=false;StatusBar=false" type="hidden"/>

‘;’ delimited options in a post field.

uiMode=classic/notebookbar – select menu/toolbars

StatusBar=false - hide status bar

TextStatusBar=false - hide status bar only for Text

Sidebar=false - hide sidebar by default

Ruler=false - hide ruler by default ... etc.
css_variables: posted with the iframe:

```html
<input name="css_variables" value="co-color-main-text=#000;--co-body-bg=#FFF--co-txt-accent=#38257a;" type="hidden"/>

‘;’ delimited options in a post field, default (for now) are:

- --co-primary-element: #4c566a
- --co-primary-element-light: #706aab
- --co-txt-accent: #38257a
- --co-primary-text: #ffffff
- --co-border-radius: 3px
- --co-body-bg: #ffffff
- --co-color-main-text: #000000
```
~ Papagaio ~

papagáios
periquitos
Welcome to the Collabora Online Demo

Thank you for your interest in the Collabora Online demo. Collabora Online is an open source on-premise office suite solution based on LibreOffice Online. It enables you to collaboratively edit, save and write text files, spreadsheets and presentations online. Collabora Online works on any modern browser and offers excellent interoperability for all popular office formats.

There are two versions of Collabora Online. The scale-able and supported enterprise-ready Collabora Online and CODE — the Collabora Online Developers Edition. While Collabora Online is aimed at professional business users, CODE is perfect for home users that want to start to run their online office suite in an own private environment or tech-enthusiast, that want to be among the first to see and test new features. Learn more about the differences here.

One more thing before you start! This demo runs on our servers and grants you access to the latest snapshot from our development branch.
After: theming / palette & settings ...

Welcome to the Collabora Online Demo

Thank you for your interest in the Collabora Online demo. Collabora Online is an open source on-premise office suite solution based on LibreOffice Online. It enables you to collaboratively edit, save and write text files, spreadsheets and presentations online. Collabora Online works on any modern browser and offers excellent interoperability for all popular office formats.

There are two versions of Collabora Online. The scale-able and supported enterprise-ready Collabora Online and CODE — the Collabora Online Developers Edition. While Collabora Online is aimed at professional business users, CODE is perfect for home users that want to start to run their online office suite in their own private environment or tech-enthusiast, that want to be among the first to see and test new features. Learn more about the differences here.

Nextcloud highlight colors

Ruler off by default

Sidebar was here ...

Lighter document background
Mobile 6.4.x ...

bringing goodness to your phone
<table>
<thead>
<tr>
<th>week 1</th>
<th>week 2</th>
<th>week 3</th>
<th>week 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov</td>
<td>Nov</td>
<td>Nov</td>
<td>Dec</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon</td>
<td>Mon</td>
<td>Mon</td>
<td>Mon</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>Wed</td>
<td>Wed</td>
<td>Wed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri</td>
<td>Fri</td>
<td>Fri</td>
<td>Fri</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sat</td>
<td>Sat</td>
<td>Sat</td>
<td>Sat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sun</td>
<td>Sun</td>
<td>Sun</td>
<td>Sun</td>
</tr>
</tbody>
</table>

**4 week project timeline**

<table>
<thead>
<tr>
<th>EMPLOYEE</th>
<th>research rainforest</th>
<th>collect supplies for presentation</th>
<th>complete sketches</th>
<th>draft presentation</th>
<th>finalize presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>kai</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>luka</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>jenny</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ari</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>luka</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bar chart:**

- **kai**: 100.00%
- **luka**: 70.00%
- **jenny**: 60.00%

**Date:** 11/11/20
Android: start of a Dark Mode for the Online shell.
500k installs
Available for iOS, Android & Chrome OS
ChromeBooks:
Collabora Office 4.2.5

Collabora Office 4.2.5: the enterprise-ready LibreOffice-based Mobile Office Suite that allows you to stay in control of your own documents, full control of all your office files.

LibreOffice is the world's most popular Open Source Office suite with over 100 million users. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Long Term Support edition of LibreOffice, Collabora Office, has now brought LibreOffice to the Cloud with Collabora Online already back in 2016 - and is still doing most of the work - e.g. 97% of commits if from Collabora.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.
Collabora Office 4.2.5

Collabora Office 4.2.5: the enterprise-ready LibreOffice-based Mobile Office Suite that allows you to stay in control of your own documents, full control of all your office files.

LibreOffice is the world's most popular Open Source Office suite with over 200 million users. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Long Term Supported edition of LibreOffice, Collabora Office, has now brought LibreOffice to the Cloud with Collabora Online already back in 2016 and is still doing most of the work - e.g., 97% of commits is from Collabora.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.

Collabora Online comes with Long Term Support and can be integrated in any web-based solution, such as File Share and Sync solutions, Document Management Systems, Groupware or custom build software.

All Long Term Support releases are supported for 3 years, with a perpetual license, annual subscription to security maintenance and updates, an SLA, and Level 3 (code fix) support (other levels are considered non-support). And there are more benefits...
Making it easy to try out

Simple setup for home users ...
Quick try-out: built-in demo servers ...

Please make sure you understand that the following will happen if you set up the Collabora Online demo.

- The service will send users documents to Collabora and/or third party demo servers.
- This service is not intended for production use, hence the documents will show tile watermarks.
- The demo service may be under heavy load, and its performance is not representative in any way of the performance of an on-premise installation.
- These servers are used for testing and development, and may run test versions of the software. As such they may crash, burn, and re-start without warning.
- The users' documents will not be retained by a third party after their session completes except in exceptional circumstances. By using the service, the user gives permission for Collabora engineers to exceptionally use such document data, solely for the purpose of providing, optimizing and improving Collabora Online. Such document data will remain confidential to Collabora and/or any third party providing a demo server.

At the first use and after an update, each user will get the warning, explaining all the above.

Use a demo server

You can use a demo server provided by Collabora and other services.

Select a demo server

- Friprogramvarusyndikatet — Sweden
- Collabora Productivity Ltd. — Ireland
- Collabora Productivity Ltd. — North California, USA
- Collabora Productivity Ltd. — Tokyo, Japan
- Collabora Productivity Ltd. — São Paulo, Brazil

Easy to test your new integration against...
Built-in demo servers: iff safe & route-able ...

Use a demo server

You can use a demo server provided by Collabora and other service providers for giving Collabora Online a try.

Your NextCloud setup is not capable of connecting to the demo servers because:

- it is a local setup (localhost)
- it uses an insecure protocol (http)

For use cases like this, we offer instructions for a Quick tryout with Nextcloud docker.
Better: Nextcloud Hub / AppImage install ...

A lovely, simple one-click install ...

- A small / fast PHP forwarding proxy & an AppImage
- Please upgrade to a faster, native server quickly ...

Use your own server

Collabora Online requires a separate server acting as a WOPI-like Client to provide editing capabilities.

Use the built-in CODE - Collabora Online Development Edition

Easy to install, for personal use or for small teams. A bit slower than a standalone server and

collaboraonline.com
Polling websocket-alikes over keep-alive’d https://
Next ...
more rapid fire
incremental goodness
Collabora moved our development to github:

- [https://collaboraonline.github.io/](https://collaboraonline.github.io/)
- [https://github.com/CollaboraOnline/online](https://github.com/CollaboraOnline/online) - follow the commits ...
- [https://forum.collaboraonline.com/](https://forum.collaboraonline.com/)
  - Questions & Minutes of our (public) weekly calls – get involved …

In-progress: Beauty & Polish …

- Canvas based front-end re-work: slicker & crisper
- JS dialog / sidebar rendering ... → client-side chrome
- Async auto-saving
Your integration ... ?
Distinctives

Thing you don’t get elsewhere
# Digital Sovereignty

*or: don’t let your document data out of your site [sic]*

Document data is held in your server room.

- Not sent to every single device to be controlled by the browser + JS + local debugger.
- C’bra sends pixels to clients.

<table>
<thead>
<tr>
<th>Security Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>on your premise / Private network</td>
</tr>
<tr>
<td>Virtual machine / Docker container</td>
</tr>
<tr>
<td>Seccomp-bpf ~no sys-calls</td>
</tr>
<tr>
<td>Extremely sparse filesystem</td>
</tr>
<tr>
<td>Chroot per document</td>
</tr>
<tr>
<td>Systematic load crash testing</td>
</tr>
<tr>
<td>Industry beating coverity score</td>
</tr>
<tr>
<td>LibreOfficeKit rendering instance</td>
</tr>
</tbody>
</table>
Simple: setup, pricing, support

“Are you sure you only need a load-balancer for HA?”

“Nothing to ask, followed the docs, easy to setup, if only all my problems were that easy”

As many servers & connections & VMs as you need

Dynamically scale your workloads with Kubernetes

Beware of the Window + Tabpocalypse: pay just once per user ...
Collabora and LibreOffice
Online commits
By affiliation (last year)

Collabora
3218
97%

Others
5

CIB
15

1&1
21

Volunteers
28

Over 50m pulls from CODE Collabora Online Development Edition docker image
Moving our development to github

Clear brand story
• Helps to drive investment and avoid user / customer confusion
• Unwinds long running source of conflict at TDF

Removing reminder for users
• CODE no longer has a warning on >20 users

Continue to support, work on LibreOffice ~ 98%

Similar to Nextcloud/ownCloud/pydio/seafile/etc.
• A clear flow of users through their projects
• An obvious place for support
• Clear credit given in the product name
• No complex structures necessary.

FLOSS company assets: cash + their brands
• ROI is important → in marketing.
On a mission: Making Open Source ROCK

Focused on your Office.
Thank you! to all our users, partners & supporters

By Michael Meeks
@mmeeks @CollaboraOffice
CollaboraOffice.com
CollaboraOffice.com/CODE
michael.meeks@collabora.com

Open Source, Open First

Oh, that my words were recorded, that they were written on a scroll, that they were inscribed with an iron tool on lead, or engraved in rock for ever! I know that my Redeemer lives, and that in the end he will stand upon the earth. And though this body has been destroyed yet in my flesh I will see God, I myself will see him, with my own eyes - I and not another. How my heart yearns within me. - Job 19: 23-27