Collabora & LibreOffice

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“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
<table>
<thead>
<tr>
<th>Collabora</th>
<th>Collabora Productivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>- &gt;140 staff, Cambridge &amp; Montreal</td>
<td>- Spun out of SUSE in 2013</td>
</tr>
<tr>
<td>- our parent company – 15 years old</td>
<td>- 32 staff</td>
</tr>
<tr>
<td>- Leading Open Source Consultancy</td>
<td>- 7 years old</td>
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<tr>
<td>- Parent company of:</td>
<td>- Focused fully on Office</td>
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collaboraonline.org
Make Open Source ROCK

This is the goal of our shareholders

What does that mean?

We re-invest your support into FLOSS software, including LibreOffice, and into our partners.

All our code is open

We do have to make money to re-invest.
Some recent highlights

Collabora & Panfrost community:

- Curing the blight of proprietary kernel drivers in embedded systems:
- Reverse engineered driver for ARM / mali – now working together with us:

FOSS & Open Standards

- Monado for VR / AR:
  - Get involved
  - https://gitlab.freedesktop.org/monado
  - https://monado.freedesktop.org/

PipeWire, WirePlumber

- Automotive Grade Linux work
- Bluetooth, Libcamera, Session mgmt

Kernel

- eg. case insensitive ext4
Collabora Office

100% focused on your productivity
Collabora Office: examples

National Research & Education Netherlands
45,000 users


200 partners and growing ...
Strong preference: sell through partners!

Customer has a single support partner.

- Who are L1/L2 support & deployment experts in Collabora products – in your language: 58 countries
- We provide Service Level Agreement & place to file tickets

Helping people start their own LibreOffice business

- Can you speak your native language? And a little English?
- Do you know about LibreOffice? → it could be you!

- We need you: Put together a full-service: your training, your migration ...

Encouraging others to invest alongside us & the community...
as an example in France

- Conseil Départemental de la Côte d'Or (Bourgogne)
  - Elected representatives editing documents online on their tablets, collaborating with agents in a workflow
- MTES: Ministère de la Transition Écologique et Solidaire
  - 25k users
- Université de Lille
  - 70k users, for agents, teachers, researchers,
  - students: https://www.arawa.fr/2019/11/23/arawa-annonce-le-deploiement-de-collabera-online-a-luniversite-de-lille/
- Académie de Nancy-Metz
- Académie de Paris
  - 1500 users
- Conseil Départemental de la Seine-Saint-Denis
- ERT Technologies, groupe Altice
- Ville de Gières
- Ville de Fleury les Aubrais
- Préfecture des Bouches-du-Rhône
  - 500 users
- Service Départemental d'Incendies et de Secours de la Moselle
- Enercoop
- Fiducial
Collabora Office
new feature examples
Interop: glow effects

Thanks to:
Tamas Bunth,
Mike Kaganski,
SUSE.
Interop: Soft Edges

Soft Edges

Before

LibreOffice 7.0

Thanks to:
Mike Kaganski
SUSE.
Interop: Padded numbering

Thanks to: Miklos Vajna
Adfinis.
Accessibility Check:

June 2020 Report

Accessibility improvements
A new “Accessibility Check” tool (Tools > Accessibility check) allows to review a document for common problems that make it less accessible to the audience.
This is an image without a proper caption:

A photo of Shirley Chisholm (public domain)

And this text has different colors that highlight important parts, but the contrast of the background is not satisfactory.
And this is a table with split and merged cells:

<table>
<thead>
<tr>
<th>Merged cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split</td>
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<tr>
<td>cell</td>
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</tbody>
</table>

This heading is of level 3, but the previous one was level 1

Thanks to:
Tomaž Vajngerl, Ivan Stefanenko & Nou&Off

Netherlands Standardisation Forum
PPTX pre-defined table styles:

<table>
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<tr>
<th>Caractéristiques</th>
<th>Modèle PC</th>
<th>Période var. – Qlé fixe</th>
<th>Modèle RP</th>
<th>Période fixe – Qlé var.</th>
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<td>Classes B et C (items non critiques et/ou dispensables)</td>
<td>Type d’item</td>
<td>Classes B et C</td>
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Thanks to: Gülşah Köse & SUSE
Interop: more powerful commenting

Thanks to:
Miklos Vajna
Interop: Custom chart labels

Thanks to:
Tamas Bunth
&
SUSE.
Interop: overlapped shape wrapping

Thanks to:
Miklos Vajna
SmartArt – continued improvements ...

Thanks to:
Miklos Vajna
&
SUSE
PDF annotation support:

Thanks to:
Tomaž Vajngerl
Interop: DOCX / continuous end-notes

Thanks to:
Miklos Vjana &
TU Dresden
Whole-page PDF sheet export

Thanks to:
Muhammet Kara
Interop: Much improved PPTX / Math

Methodology: exergy analysis

\[ X_{\text{sun},i} = \dot{Q}_{\text{sun},i} \]

\[ \dot{X}_{\text{loss, refl},i} = |1 - a| X_{\text{sun},i} \]

\[ \dot{X}_{\text{dest},i} = X_{\text{sun},i} - \dot{X}_{\text{loss, refl},i} - \dot{X}_{\text{loss, ext}} \]

\[ \dot{X}_{i} = \dot{Q}_{i} \left( 1 - \frac{T_{\text{ref}}}{T} \right) \]

\[ \dot{X}_{\text{net},i} = \frac{\dot{X}_{\text{net},i}}{X_{\text{sun},i}} \]

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\[ \dot{X}_{\text{dest, wall},i} = \dot{Q}_{i} \]

\[ \dot{X}_{\text{dest, conv},i} = \dot{Q}_{i} \left( 1 - \frac{T_{\text{ref}}}{T} \right) \]

\[ \dot{X}_{\text{dest, flow},i} = \dot{X}_{\text{conv},i} + m |\varphi_1 - \varphi| \]

\[ \dot{X}_{i} = \dot{m} \varphi_{i} \]

\[ \dot{X}_{\text{out},i} = \dot{m} \varphi_{\text{out}} \]

Thanks to:
Miklos Vajna
&
TU Dresden
New Table sidebar panel – originally for mobile

Thanks to:

Tamás Zolnai

(also to volunteer: Roman Kuznetsov)
Some pieces you can only feel ...

**Threading improvements**

- Thread independent formula-group calculation – *Dennis Francis*
- Parallelized super-scalar sample sort for Pivot Tables.

**Load / Save performance**

- Accelerate load/save of various sorts of documents – *Noel Grandin*
  - Lots of xlsx comments, lots of xls styles, lots of ods change-tracking ...

**Skia rendering**

- New, modern, cross-platform, accelerated rendering backend as default
- Move away from OpenGL
  - Now hardware accelerated via Vulkan
- Thanks to Luboš Luňák & AMD
Collabora and LibreOffice
Yet another economics primer ...

- Is there a need for professional developers?
- Why not fund them by magic? (or even donations?)
- TINMF → There Is No Money Fairy
A virtuous cycle: product company

Investment → Jump Start → Development

Marketing → Leads

Sales

Multi-year delay...

Sustainable customer delight
A vicious cycle: product company

Investment → Jump Start

Marketing → Sales

Leads → Multi-year delay ...

Development
The LibreOffice “Desktop” cycle:

Investment

Jump Start

Find out why millions can pay nothing!

0.05% leads

Sales

Brand / Investment dis-connection, no ROI, no repeat investment

Community Marketing

Development
Source only LibreOffice “Online”

Worked for some years: some miss a ‘product’

Collaborate here, get your binaries elsewhere:

Semi-permeable membrane:
\[\leftrightarrow\] code
\[\leftarrow\] investment

Competitive war in the marketplace:
New board, new dynamic:

Discussion around injecting TDF into the marketplace too

A summary of (some) community desires, which may conflict:

- Want corporate investment → to drive feature/function
- Want LibreOffice branding
- Want Gratis, unlimited binaries from TDF,
- Don’t want effective moral suasion to buy:
  - don’t tell users they need to; perhaps tell them they should donate?
- Want to re-direct marketing / leads to diversify contribution
An awesome community of friends.

(who still disagree sometimes)
A marketing plan:

Perhaps some users should pay something?

5% leads

LibreOffice Enterprise?

Lots of good ideas

- Hard work from Italo & team
- Significant, widespread resistance to the concept
- Achievable – only by distressing or losing some part of the community.

Even when deployed:

- Where do those leads go?
A (good) marketing plan:

Board Decides whom to send leads to:

Perhaps some users should pay something

5% leads

LibreOffice Enterprise?

Weak brands, tough to differentiate, commodity pricing

Community Marketing

Personal?

Robust algorithm based on real contribution (?)
A simpler approach:

Simpler for LibreOffice

A smooth move, to a familiar model

Online commits
By affiliation (last year)

Collabora
3218
97%

Others
CIB
15
21
28
Volunteers

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 needs a warning on limits.

Access to more developers

Continue to support, work on LibreOffice

Similar to Nextcloud / ownCloud / RedHat / Ubuntu / SUSE ...

- A clear flow of users through their project
- An obvious place for support
- Clear credit given in the product name
- No complex structures necessary.

Get competitive stress out of TDF

FLOSS companies own cash + their brands

- ROI is important → in marketing.
A smooth move to: https://collaboraonline.github.io/

Contributors

- Commits rights transfer:
  - 34 committing members: the cool kids

Translators

- Finally crediting them
  - Moved from Transifex → Weblate in Week#1
    - Thanks to Adolfo J-B and Rizal M for the tip.
  - Now funding Weblate development.

- Contributions to:
  - Aragonese, Asturian, Catalan, Czech, Finnish, German, Hungarian, Indonesian, Italian, Norwegian Bokmål, Occitan, Polish, Portuguese (Brazil), Russian, Slovak, Spanish, Turkish

- Thank you to:
  - Andika Triwidada, Andrej Shadura, Andras Timar, PhD. Ayhan YALÇINSOY, Allan Nordhøy, Adolfo Jayme Barrientos, Jan Holesovsky, koffevar, Marc Rodrigues, Marco Cecchetti, Matthaiks, Muhammet Kara, Nikita Epifanov, No Ne, Nnamani Ezinne Martina, Oğuz Erson, Quentin PAGÈS, Rob Pearson, Szymon Kłos, Thais Vi, Unihuppio
New bits:

Communication

- IRC/Telegram/Matrix bridged: #cool-dev

Discourse forum: https://forum.collaboraonline.com/

Weekly Community Roundup
New contributors to COOL on GitHub (so far)

Code contributions

- **Andreas Kainz** - Fix StyleApply drop down menu width, SVG icon theming
- **Andrea Gelmini** - Typo fixes and clean-ups
- **Rizal Muttakin** - Updates of Colibre icon sets and Impress sidebar icons
- **Kandarp Patel** - ensure consistent function declarations
- **Yunus Bulut** - kill WebDAVStorage in the code
- **Alan Verdugo** - Fixing pylint errors on Python scripts
- **corleone77** - Fixing pylint errors on Python scripts
- **Batuhan Gökem Benzer** - Fixing pylint errors on Python scripts
- **Dilaver Demirel** - Various fixes towards eslint upgrade
- **Mücahid Aydin** - PEP8 code style conformance

More Code contributions

- **Pelin Kuran** - Various fixes towards eslint upgrade
- **Buğra Kurt** - Fixes towards eslint upgrade
- **Yusuf Keten** - Prevent memory leaks with Util::make_unique()

Issue Contributions

- **Adolfo Jayme-Barrientos** - Transifex is proprietary (solved! By switch to weblate)
- **Andreas Kainz** - Several issues about UI & UX, including icons, general layout, notebookbar etc.
- **xklong** - small inconsistency in the X-LOOL-WOPI-Timestamps (Pranam Lashkari is working on it)
- **elpraga** - enhancement request to add document language selection to mobile view
- **Julius Härtl** - UX bugs about menu bar button alignments and sidebar icon styles
LibreOffice still rocks

Bright future

- 98.5% of the code
- the desktop app
- wonderful technology:
  - rendering, interop. file-format wizardy
  - UX sharing → same UI etc.

We commend it to you:

- Why not get involved:

Possible

- TDF comes up with a mix / ecosystem plan that makes it a slam-dunk to invest there → lets see.
Collabora Online work: a taste of the last year
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.

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

Select a demo server

- Friprogramvarus syndikatet — Sweden
- Collabora Productivity Ltd. — Ireland
- Collabora Productivity Ltd. — North California, USA
- Collabora Productivity Ltd. — Tokyo, Japan
- Collabora Productivity Ltd. — São Paulo, Brazil
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://
Thanks also to: 

Adfinis
Completely re-written mobile UX: one-handed use
Off-line editing too.
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 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 if 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.
Collabora Office 4.2.5

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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 for our hardware supported by our partners. You don’t see any benefits.

COLUMNS

Settings

Columns:

Apply to: Page Style: Default Style

Width and Spacing

Column:

Width:

Spacing:

Separator Line

Style: None

Height: 100%

Font: Black

Dth: 0.25 pt

Position: Top

AutoWidth
Just released: CODE 6.4.0

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 v4.2.7 → CODE v6.4
A version leap: cf. openSUSE

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

Can collapse to just a menu ...
Collabora Online 6.4: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in control of your own documents. Full control of your office files.

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Can we add the version number here too?

Insert "With collabora....."
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Online commits
By affiliation (last year)

Collabora

3218
97%

Others
15 QB
21 1&1
28 Volunteers

PDF Search, Collaboration & Annotation
Import SmartArt Graphics in Collabora Online 6.4

- a
- b
- c
- empty
- X
- y
- z
- empty
The pieces you can’t see

Integration improvements

- Masses of new extensible API to embed Online into your application
- WOPI-like Locking implementation

Performance

- Loading time, dialog rendering time
- PDF search
- Unipoll – code simplification.

Security & Anonymization

- Anonymized logging
- 3rd party penetration testing

And much much more ...
UX integration: the next steps
Getting style guide: a how-to ...

Iconography

Dialog
Windows
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 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
Integration / theming / palette & settings ...

Ruler off by default

Sidebar was here ...

Lighter document background

Matching highlight colors

Welcome to the Collabora Online Demo

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Products
What can people buy:

Collabora Office

• Long term (3-5 years) stable, supported versions of LibreOffice
• includes cumulative customer fixes – Redaction eg.
• Easier to deploy on Windows: MSP, ADMX lockdown templates
• Unlimited low-priority bug/ticket filing
• Inexpensive - for 1000 seats - €0.96 / user / month

Custom Development

• Service Level Agreement on bug-fixes
  • Have an engineer starting ~now!

All products:

• Unlimited low-priority bug/ticket filing

Product Management & roadmap

• Sit down with us & prioritize ...
Collabora Online – the features you know plus

**Service Level Agreement** – keeping your documents on-line

**Product Management Input** – tell us where we should go next!

**Custom Integration** – APIs, and work ...
- Partners commit to install & integrate with the code

**Community and Product**
- **CODE → Collabora Online Development Edition**
  - The latest developments a view of the future
  - Perfect for personal use, open, community development
What customers & partners get ...

Customer Portal access

- Access to Collabora Online binaries & update & snapshot channels.
- Full Technical Docs
  - Setup, deployment, manual
  - Support training details

Direct access to Engineers & Product Mgmt
(some of) the awesome team serving you.

Sorry we can’t be with you this year
Seven years of Collabora Productivity

Open Source, Open First
Commits by Affiliation – last year

16,341

Code commits
Aug 2019 – Sep 2020

We need to improve our ecosystem diversity-wise,

Let's ensure that people can build businesses around it

Also celebrate, encourage & credit all contributors

Collabora

Red Hat

7518

3525

3367

TDF:

0% of our revenue
0% last year.
Other ways we serve & contribute ...

Governance
- 2x Board/deputy members
- 1 Membership Committee
- Serve on the ESC

More work – funding time
- Mentoring / GSOC
  - 5/9 mentors this year, 4/6 projects
  - Daily up-stream mentoring / review.
- Patch review of gerrit commits
- Hackfest / evangelism
- conference content: 2/3 of dev. talks.

Funding with cash
- Conference Sponsorship
- Marketing publication sponsorship
- Cash from Apple App-store sales – 15%

Paying for things TDF cannot
- Buying community meals at conferences
- Thank-you presents etc.
Thanks to our team(s) who have worked so hard:

Collabora Code Committers - last 12 months (33)
Noel Grandin, Tamás Zolnai, Miklos Vajna, Szymon Kłos, Luboš Luňák, Tomaž Vajngerl, Tor Lillqvist, Mike Kaganski, Michael Meeks, Jan Holesovsky, Pedro Pinto Silva, Ashod Nakashian, Henry Castro, Andras Timar, Dennis Francis, Pranam Lashkari, Justin Luth, Muhammet Kara, Marco Cecchetti, Mert Tumer, Gokay Satir, Aron Budea, Gülşah Köse, Tamas Bunth, Corentin Noël, Grzegorz Araminowicz, Yunusemre Şentürk, Armin Le Grand, Ezinne Nnamani, Thais Vieira, Iván Sánchez Ortega, Eloy Crespo, Ivan Stefanenko

Management / Marketing / Support
- Eloy Crespo, Andrew Lee → Sales
- Cor Nouws, Marc Rodriguez, William Gathoye → Marketing
- Tracie Fabb, Julie Wilder, Hannah/Jassie/Jessie ... → Biz support

In bold (left)
- managed to manage a team as well (!)

Please do encourage them.
Collabora Productivity

Conclusions

- Our FOSS mission applied:
  - working to make LibreOffice rock.
  - Working to liberate people’s documents

- All paid for by our Customers & Partners
  - can’t do anything without them,

- All executed by our staff

- All executed alongside the community
  - Getting it done & making it fun.

- Branding is one of our only assets:
  - We need credit & leads to fund the fun.

- A pleasure to be able to sponsor the openSUSE / LibreOffice conference.

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