Cell protection in Calc

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Collabora Online

LibreOffice Technology

Technical Day
COOL days

What is cell protection?

Prevent modification of a cell

- Or hide it

- Or hide its formula

- Or hide for printing

Editing a protected cell

New...

Until 23.05.9

- You could get that alert

- You couldn't change the cell protection

- You couldn't protect or unprotect the sheet

  - Which is essential to the feature

Implementation

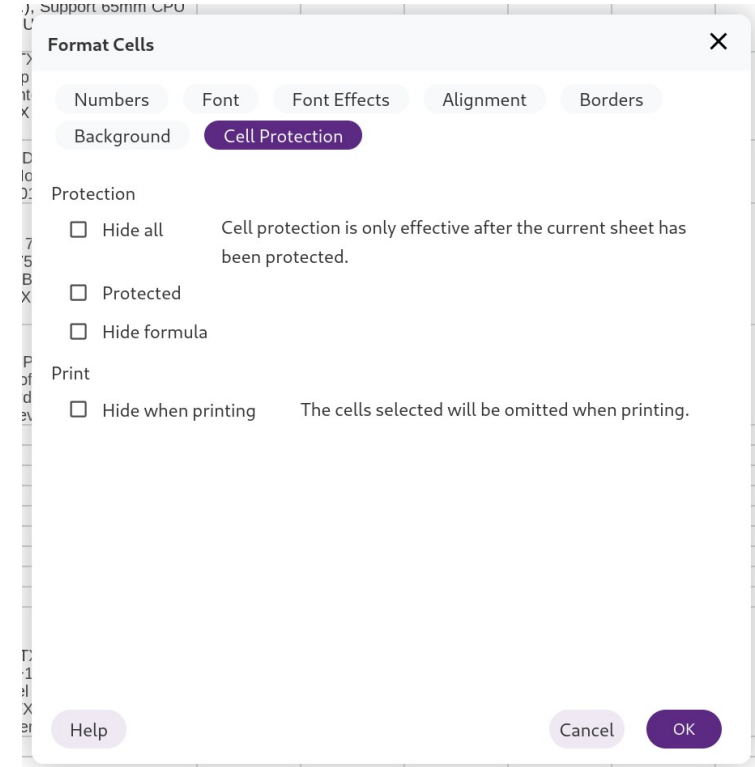# What does it take?

How much work?

- The feature is in Collabora Office (desktop application)

- We need

  - Cell protection tab

  - Sheet protection dialog

    - Various UI elements: menu, toolbar

  - The status

Cell properties dialog

Cell protection tab in cell properties dialog

- Right click on cell > Format Cell

- In LOKit

  - Remove the code that remove the tab

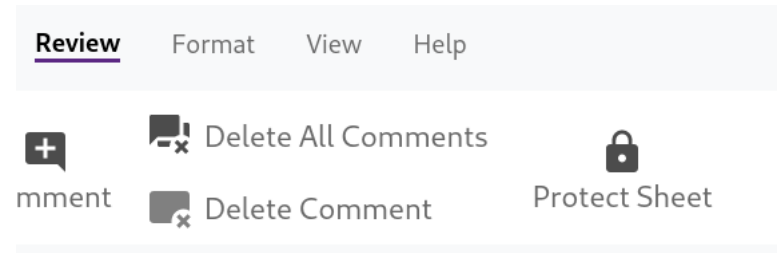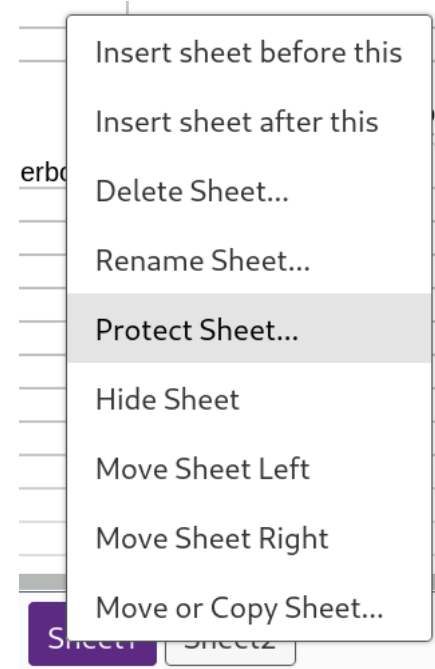 - Enable the dialog UI file in the build


```
2 files changed, 2 insertions(+),
6 deletions(-)
```

Sheet protection

In COOL

- The Protect sheet command isn't visible

  - Add it to the context menu

  - Add it to the classic menu

  - Add it to the notebook bar

  - Bind this to `.uno:Protect`
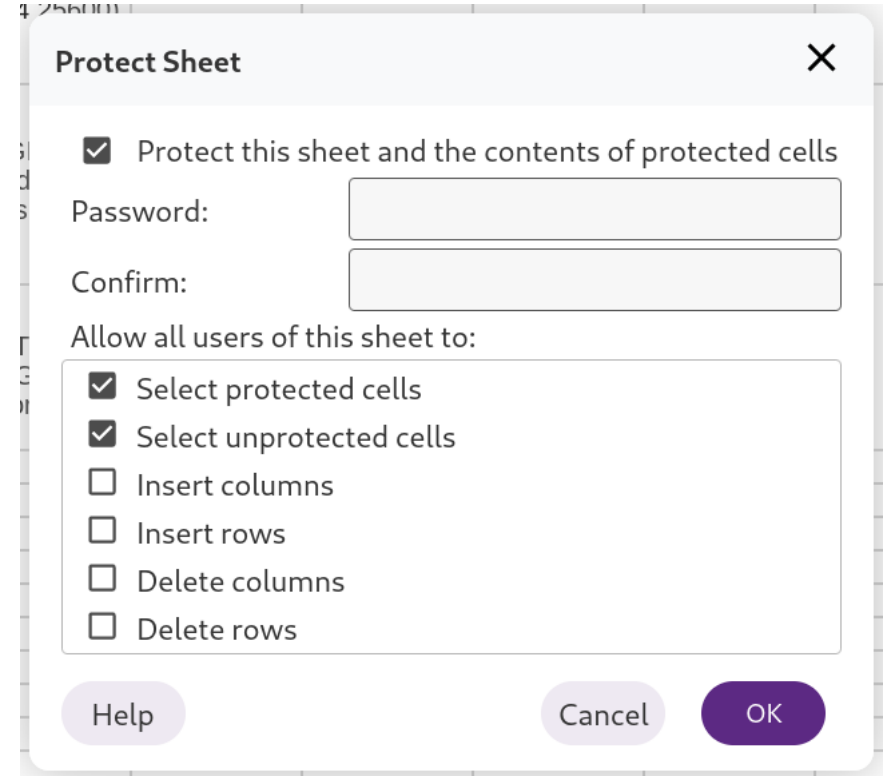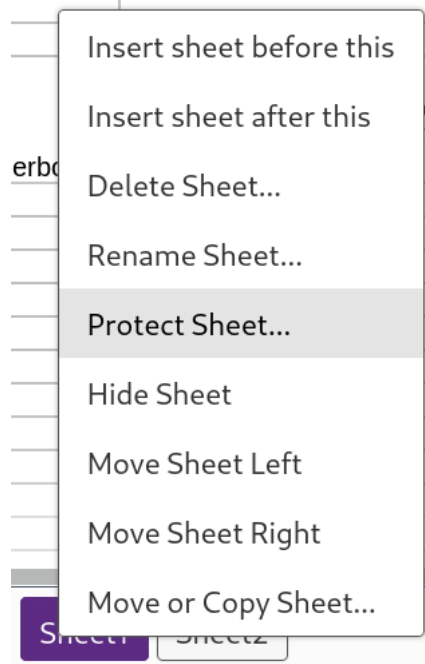
Sheet protection dialog (2)

Sheet protection dialog

- Right click on the tab *Protect Sheet...*

    - Nothing happen.

- In LOKit

    - Enable the dialog UI file in the build

```
1 file changed, 1 insertion(+)
```

Sheet protection dialog

The status

How do we know the sheet is protected?

- In LOKit when asked for the info:

  - Just add it to the message

- In COOLWSD:

  - Decode the message

- In the UI:

  - Add the lock icon

Final touches

Some detail adjustments

- Make sure that when the sheet is protected some UI commands are not available: remove and rename.

- The dialog isn't async → make it so (it's for performance)

- In 24.04 the dialog layout was incorrect due to a missing widget implementation

Conclusion

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✔ It was easier than I thought

✔ Touched 3 different modules

 ✔ LOKit

 ✔ COOLWSD

 ✔ Web UI

✔ 3 different languages: C++, JavaScript, CSS

✔ … success !

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Thank you!

By Hubert Figuière

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