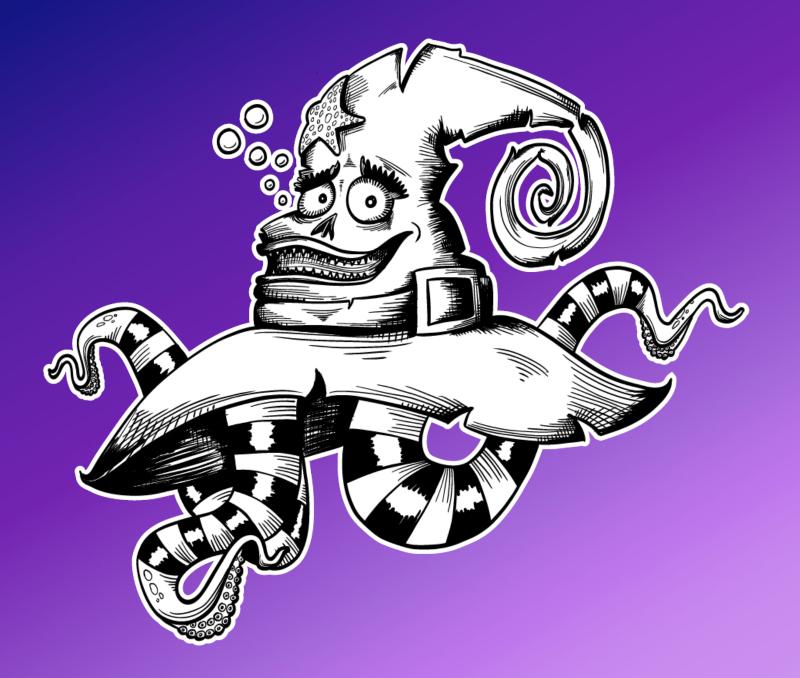


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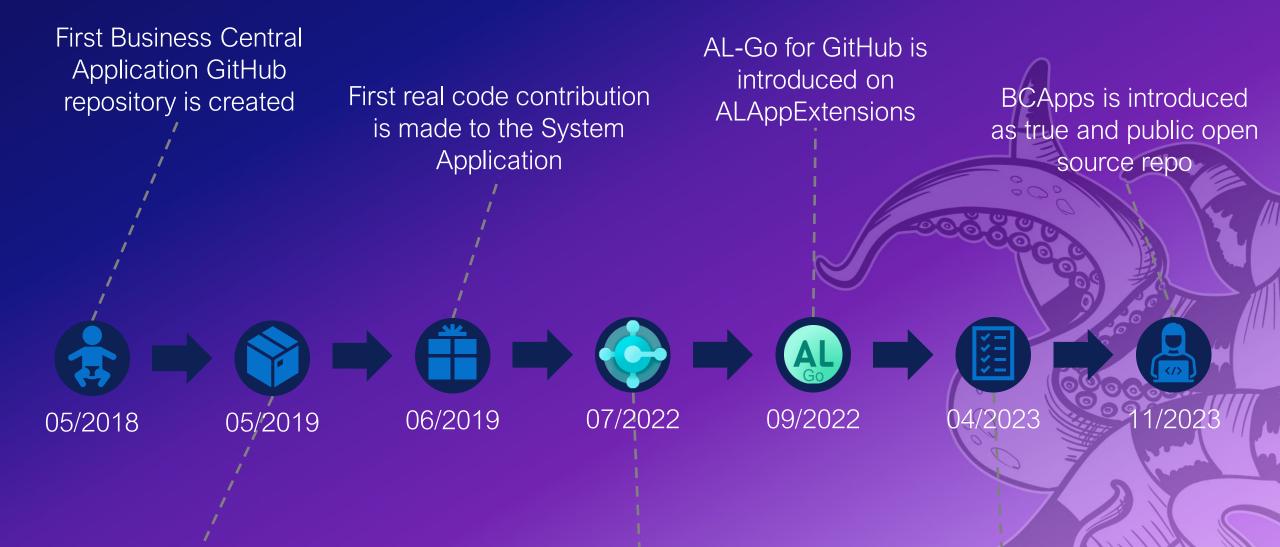
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How everyone can contribute to the Business Central standard code





The first modules of the System Application are added to the repository

The Business Central
BaseApp contribution pilot
goes live

The Cronus License is opened up as a developer license



## BCApps: A community effort

BCApps was officially launched November 2023

Since then, version 24.0 has been built in close collaboration with the community

Microsoft says Thank you to all the contributors!

**101** Forks

68 Contributors

% 861 Merged PRs





### Open Source is more than writing code!



It's about collaborating & reviewing



It's about learning from others



It's about teaching others



It's about ensuring quality



It's a requirement



#### Why?

Partner perspective



Make the product better, strengthen BC ecosystem



Solve (annoying) things only once



Build a relation with MS engineers



Attract and keep the best devs



It's fun!



#### Challenges

Partner perspective



Where is the limit in sharing?

(Key) intellectual property, size/time, priorities



How can we legally allow it? Employee contract



#### Welcome to BCApps!

## **GitHub**

### Welcome to BCApps: Microsoft Dynamics 365 Business Central Application

#### The Repository

This repository contains the source code for several Business Central applications, developed by Microsoft.

The source code in this repository is available to everyone under the standard MIT license.

#### Contributing

In this repository, we welcome contributions to the **System Application**, **Business Foundation** and the **Developer Tools**, such as **Test Runner**, **Performance Toolkit** and others.

- If you are looking to contribute to Microsoft's 1st party apps you can do so in the ALAppExtensions repository.
- If you are looking to contribute to the **Base Application** you can do so in the <u>BusinessCentralApps</u> repository. Please note, that this repository is private but you can request access by filling out this form.

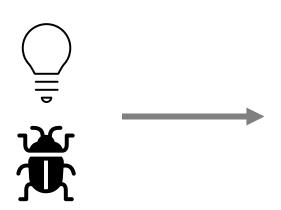
Want to learn more about how to contribute to this repository? Please refer to our Contribution Guidelines.

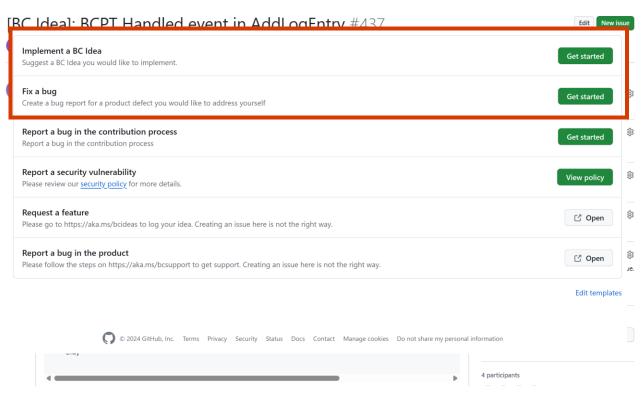
▲ IMPORTANT ▲: This is not the right place to report product defects with customer impact to Microsoft! sues created in this repository might not get picked up by the Microsoft engineering team and issues reported in this repository do not fall under SLAs (Service Level Agreements) and hence have no guaranteed time to mitigation, just as provided fixes won't get backported to all supported versions of the product.



#### Getting Started with Contributing

- 1. It all starts with an idea or a bug
- 2. Create a GitHub issue
- 3. Gain approval







#### Setting up your Development Environment

- 1. Create a fork
- Set up a container for your dev. Environment (local or COSMO Alpaca)
- 3. Time to develop!

#### How to create a local development environment

#### Prerequisites

- · Install and run Docker Desktop. Make sure it is running Windows containers.
- Install <u>BcContainerHelper PS module</u> (latest available version). Install-Module BCContainerHelper -AllowPrerelease would do.

Here you can read more about BcContainerHelper.

#### Create a development environment

The development environment is a docker container running Business Central locally. In order to create it, simply run .\build\scripts\DevEnv\NewDevEnv.ps1 with the desired parameters.

For instance, running the following will

- 1. Build all AL apps that match .\src\System Application\.
- 2. Create a docker container called BC-SystemApp with an admin user with the provided credentials.
- 3. Publish the built apps and their dependencies to BC-SystemApp.







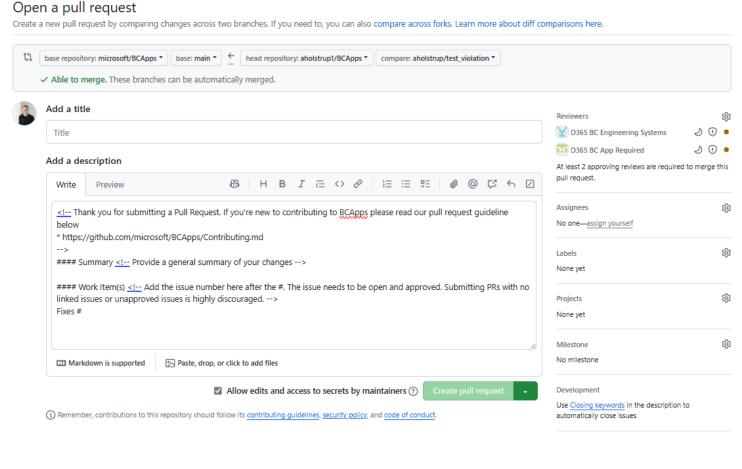
# COSMO Alpaca is free for base app contributions! (for 20h / month)

If you decide to further use it, COSMO will get in touch. After an agreement, the price will be 0,90 € / hour



#### Opening a Pull Request

- 1. Add a title
- 2. Provide a summary
- 3. Link to your issue





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#### Merging a Pull Request

#### What is required before merging?

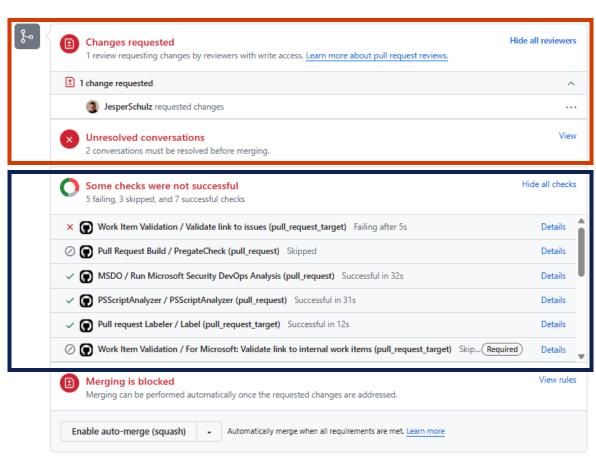
#### Code Reviews

- Comment Resolution
- Approvals

#### Checks

- Work Item Validation
- For Microsoft: Validate link to internal work items
- Pull Request Build





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#### Bert Verbeek – 4PS Group by Hilti Technical Solution Architect & Microsoft MVP

When we find an **error** in standard BC it is very easy and quick to do it by ourself because we know the issue and have the code. So no hassle to create support tickets etc. And in the next minor we already have the fix we have implemented through the open source project!

We saw the benefits of a **new feature** (batch posting transfer orders) for our end users. So we created the feature and test automation. In the next major release our end users can already take benefit of it!





#### Simon Fischer – 4PS Group by Hilti Senior Developer

It felt wrong to keep such a basic functionality (Azure Blob Storage integration for BC) to myself, knowing that others will have to do the same things **over and over again** - instead of spending time on the actual solution.

The community feedback was very rewarding and it showed me, that there is a will to collaborate more. I hope that the contribution will **encourage others** to do the same.





Kilian Seizinger – prisma informatik GmbH Developer & Microsoft MVP

Contributing functional improvements to the BC standard might seem like additional work, but because maintenance is also done by Microsoft and others in the community, it actually is less work in the end.

Saving time by **solving problems** once and for all gives me the opportunity to work on new topics. And I just like the Open Source mindset!





#### Alexander Drogin - KPMG Senior Technical Architect

I find many benefits in being a part of the Open Source community. It's always a **good learning** and a very rewarding experience to work alongside some of the best Business Central developers.

Besides, open source helps me solve practical problems. For instance, I've always been troubled by the need to isolate false positive BaseApp tests. Now my own test runs get cleaner with every test I fix.







#### Technical Lead & Microsoft MVP

I hate doing the same development multiple times. And if it's something we (as partners) don't see added value, it's fantastic to have this opportunity to fix/improve the Business Central code through the open-source program.

You can do anything - I've tried to refactor

Transformation Rules (→ go to the BaseApp
repo and help me by providing your feedback as
a code review) but also improved the
extensibility of D365 Sales integrations in 7-9
contributions for different parts needed for a
proper BC-CE AppSource solution.



Hear directly from two of the top contributors:

#### **Business Central Open-Source Contributions:**

The quickest way how to see your name during Microsoft BC Keynotes



# Don't be scared! Learning and teaching is fun

Jump into reviews & discussions You and the product quality can only benefit!





# Thanks for your attention! Questions?

Let me know how you liked it: LinkedIn and X/Twitter - tobiasfenster

