# Failed Additions to Best Calculator

It’s useful to list reasons why a desired addition to Best Calculator could not be added. This list doesn’t include failed attempts to add a Bluetooth device (which is listed over in the Bluetooth directory)

## Excel via O365

The Office team would love developers to add support for O365 into normal apps. Unfortunately, they continue to suffer (badly) from a weird and fragmented API set, a per-year developer fee.

First attempt: [Create an app with Office 365 APIs](https://msdn.microsoft.com/en-us/office/office365/howto/getting-started-Office-365-APIs). Sounds promising, right? The one platform they don’t support is Windows.

That set of SDKs is a wrapper over the [Office 365 API Reference](They%20do%20say); these are a set of REST APIs.

Thank goodness there’s an [Office Graph API](https://graph.microsoft.io/en-us/). This is touted as “the one endpoint to rule them all”. No, you can’t make graphs. It’s for “insights and relationships” (which I don’t care about). And not Excel (which I do).

But the real kicker is how many things you need to [subscribe to](https://msdn.microsoft.com/en-us/office/office365/howto/adding-service-to-your-Visual-Studio-project) just to get started:

* An [Office 365 Developer Site](https://msdn.microsoft.com/en-us/office/office365/howto/setup-development-environment#bk_Office365Account)
* An Azure AD tenant [associated with your Office 365 Developer Site](https://msdn.microsoft.com/en-us/office/office365/howto/setup-development-environment#bk_CreateAzureSubscription)
* [Visual Studio and the Office Developer Tools for Visual Studio](https://msdn.microsoft.com/en-us/office/office365/howto/setup-development-environment#bk_VisualStudio)

When you go to those places the costs and hassles start to increase.

1. Azure AD is required
2. O365 for business is required
3. You need an ($99/year) [O365 developer account](https://portal.office.com/Signup/Signup.aspx?OfferId=C69E7747-2566-4897-8CBA-B998ED3BAB88&DL=DEVELOPERPACK&ali=1#0)

This also includes yet another identity separate from your regular MSA: an @onmicrosoft.com account.

My final solution? Just write CSV files and let the user place them in the OneDrive folder. This has the advantage that it works even if the user doesn’t have O365 AND works when the user is using something like “work folders”.