Combine Power Automate, Microsoft Teams Approvals and an SAP Cloud Application Programming Model (CAP) App

Context and possible options

Right now, I’m involved in a Side-by-Side Extension Product development. The application is implemented using the SAP Cloud Application Programming Model (CAP) using the NodeJS runtime. The documents maintained in the application need to be approved by a second person (approver) after a specific step. To provide the approver a seamless experience I see these options:

* Integrate into the SAP S/4HANA on Premise “My Inbox” app
* Integrate into SAP Task Center service
* Integrate into Microsoft Outlook
* Integrate into Microsoft Teams
* Send a mail

The first option to integrate into the “My Inbox” app requires the implementation of a custom task provider class as nicely described by [harish vyas](https://people.sap.com/harish.vyas) in his post [Integrating 3rd Party Workflow to Fiori My Inbox](https://blogs.sap.com/2019/12/25/integrating-3rd-party-workflow-to-fiori-myinbox/).

Update, 14th May 2021: I found another option to integrate into the “My Inbox”. You can implement a TCM (task consumption model)-compliant OData adapter as described in the blog post [How to implement an OData provider for My Inbox](https://blogs.sap.com/2016/07/28/how-to-implement-an-odata-provider-for-my-inbox/) from [Lena Grothaus](https://people.sap.com/lena.grothaus) and the SAP Note: [2304317 – How to implement an OData provider for Task Gateway/My Inbox](https://launchpad.support.sap.com/#/notes/2304317).

The SAP Task Center service isn’t yet available. According to the SAP TechEd 2020 session [Central Workflow Inbox as a Key Intelligent Enterprise Quality [DEV112]](https://events.sapteched.com/widget/sap/sapteched2020/Catalog/session/1602555752389001uoEl) by [Georgi Mladenov](https://people.sap.com/georgi.mladenov) and [Ivan Vasev](https://people.sap.com/ivan.vasev) the GA is planned for Q2/2021. My question [SAP Task Center – Add tasks from partner applications](https://answers.sap.com/questions/13298487/sap-task-center-add-tasks-from-partner-application.html) was answered by [Ivan Mirisola](https://people.sap.com/ivan.mirisola). The integration is possible using the SAP Workflow Service.

While composing this post I’ve re-discovered the blog post [Integrating SAP Cloud Platform Workflow with Microsoft Outlook](https://blogs.sap.com/2020/04/14/integrating-sap-cloud-platform-workflow-with-microsoft-outlook/) by [Harald Schubert](https://people.sap.com/harald.schubert). It describes in great detail how to leverage Adaptive Cards for SAP Workflow service approvals in Outlook.