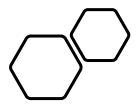
# Extend Teams apps to M365 (Outlook and Office)



Save one of your recent mails to Teams or OneDrive coming from either Teams,
Office or Outlook





- Markus Moeller
- Microsoft 365 Developer Expert
- Microsoft MVP
- MVP
- Avanade Germany
- @moeller2\_0 💟
- https://mmsharepoint.wordpress.com
- Proud dad of 1 (2yrs)





Save full mails to Teams / OneDrive and mark them as "Saved"



### Prerequisites

- A Teams static/personal Tab app
- Teams manifest v1.13 or above
- TeamsJS SDK 2.0 or above
- Demo based on yo teams v4 for instance

## Possible scenarios for M365 across apps

	Teams	Outlook	Office
Personal app	Teams App	Teams App	Teams App
	SPFx	SPFx	SPFx
Search-based messaging extension	Teams App	Teams App	-
Action-based messaging extension	Teams App SPFx	<b>A</b>	-

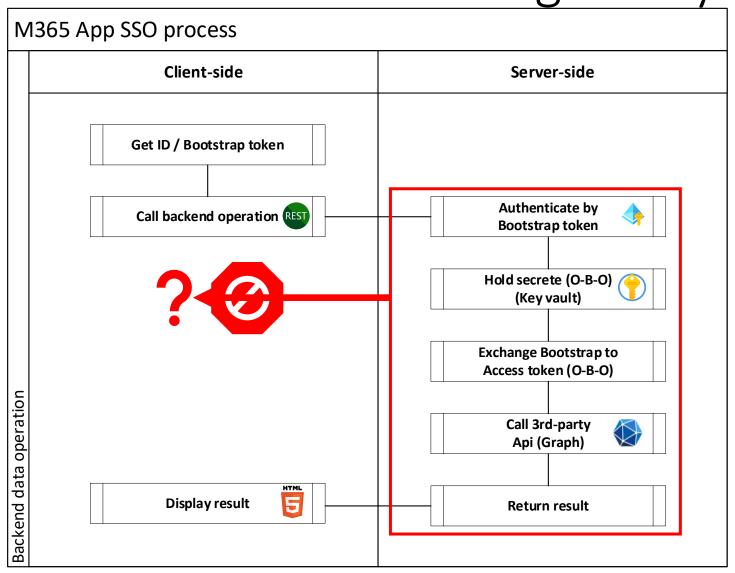
### The Manifest

```
"$schema": "https://developer.microsoft.com/en-us/json-schemas/teams/v1.13/MicrosoftTeams.schema.json",
"manifestVersion": "1.13",
```

### Detect host (M365 product)

```
useEffect(() => {
  if (context) {
    switch (context.app.host.name) {
      case "Teams":
        setDialogContent(<Teams getJoinedTeams={getJoinedTeams} currentFolder={
        break;
      case "Outlook":
      default:
        setDialogContent(<OneDrive currentFolder={currentFolder}
getFolders={ge</pre>
        break;
   [token, currentFolder, selectedIndex]);
```

# SSO with TeamsJS SDK 2 the right way



## Upload small file vs resumable upload

const response = await Axios.post(requestUrl, sessionOptions,

const resp = await uploadMailSlices(mimeStream, response.data.uploadUrl);

Authorization: `Bearer \${accessToken}`,

headers: {

return resp.data;

```
(mailMIMEContent.length < (4 * 1024 * 1024)) { // If Mail size bigger 4MB use resumable upload
  mailDriveItem = await storeMail2OneDrive(driveID, folderID, mailMIMEContent, fileName, accessToken);
else {
  mailDriveItem = await saveBigMail(driveID, folderID, mailMIMEContent, fileName, accessToken);
       const saveBigMail = async (driveID: string, folderID: string, mimeStream: string, fileName: string, accessToken:
        const sessionOptions = {
          "item": {
            "@microsoft.graph.conflictBehavior": "rename"
        let requestUrl = `https://graph.microsoft.com/v1.0/drives/${driveID}/`
        requestUrl += driveID !== folderID ? `items/${folderID}:/${fileName}.eml:/createUploadSession` :
```

### Microsoft Graph Open Extensions

```
const saveMailMetadata = async (mailId: string, displayName: string, url: string, accessToken: string) =>
  const savedDate: Date = new Date();
  const metadataBody = {
    "@odata.type" : "microsoft.graph.openTypeExtension",
    "extensionName" : metadataExtensionName,
    "saveDisplayName" : displayName,
    "saveUrl" : url,
    "savedDate" : savedDate.toISOString()
  let requestUrl = `https://graph.microsoft.com/v1.0/me/messages/${mailId}/extensions`;
  const response = await Axios.post(requestUrl, metadataBody,
    headers: {
                                                     Select storage location
        Authorization: `Bearer ${accessToken}`,

¶ You already saved this mail on 8/28/2022, 11:58:13 AM

                                                          to Your weekly PIM digest for mmoellermyp.eml
```

### Resources

- https://mmsharepoint.wordpress.com/2022/08/31/extend-teamsapps-to-m365-with-sso-the-right-way/ [BlogPost]
- https://github.com/pnp/teams-dev-samples/tree/main/samples/taboffice-sso-mail-save
   [PnP Sample]
- https://learn.microsoft.com/en-us/microsoftteams/platform/m365apps/overview [Microsoft Documentation]
- https://pnp.github.io/blog/post/microsoft-365-app-scenarios/
   [Different scenarios]