Microsoft

Using the
TeamsJS SDK V2
to extend your Microsoft Teams
solutions to Outlook and Office

Bob German
Cloud Developer Advocate
Microsoft

Microsoft 365 Software Development Kits

Client-side library

Microsoft Authentication Library (MSAL)	Microsoft Graph SDK	PnP JS SDK	Teams JavaScript client SDK	Bot Builder SDK

Software Development Kits (SDKs)

Teams client

REST API secured by Azure AD

Azure Active Directory	Microsoft Graph	SharePoint REST API (native)	Azure Bot Service

Microsoft Services

Teams JavaScript SDK v2 Enhancements

- Multi-host support
- New namespaces
- Promises
- New API calls
- Backward compatible with v1

Capabilities and Hosts

app

appInstallDialog

authentication

calendar

call

chat

dialog

location

mail

media

pages

people

sharing

teamsCore

video

Capabilities: Logical groupings of APIs that provide similar functionality

Hosts: Microsoft 365 applications that can run an app

`mail.isSupported()` → `true`

`mail.isSupported()` → `false`

`mail.isSupported()` → `false`

Query the capabilities to determine available features

```
mail.isSupported() → false
```

Use the context.app.hosxt.name to determine themes and views for each host

```
await microsoftTeams.app.initialize();
const context = await microsoftTeams.app.getContext();
If (context.app.host.name === microsoftTeams.HostName.teams) {
    // show theme for Microsoft Teams
}
```

Selected capability APIs

Calendar	isSupported() composeMeeting() composeCalendarItem()
Call	isSupported() startCall()
Chat	isSupported() openChat() openGroupChat()

Dialog	isSupported() open() registerOnMessageFromParent() sendMessageToDialog() sendMessageToParentFromDialog() submit()
Location	isSupported() getLocation() showLocation()
Mail	isSupported() composeMail() openMailItem()
People	isSupported() selectPeople()

demo

App in Teams, Office, and Outlook

https://aka.ms/teamssdk-v2-sample (preview)

Next Steps

Quick Upgrade

1. Install the new SDK

   `npm install --save @microsoft/teams-js`

2. Update your app manifest
   - Teams-only apps: **1.12**
   - Teams apps extended to Office or Outlook (preview) **1.13**

3. Over time update your code
   - check capabilities/hosts
   - callbacks → promises
   - new namespaces

Resources

Built tabs and other hosted experiences with Teams JS SDK v2

https://aka.ms/TeamsSDK-V2

Try out a sample

https://aka.ms/teamssdk-v2-sample

NPM package

https://www.npmjs.com/package/@microsoft/teams-js/