

Microsoft identity platform

Developer community call

Staying Up-To-Date with Authentication for JavaScript Applications

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Introduction

- First things first
 - Please note: **We are recording this call** so those unable to attend can benefit from the recording.
 - This call is designed for developers who implement or are interested in implementing Microsoft identity platform solutions.
- What kind of topics will we discuss?
 - We will address development related topics submitted to us by the community for discussion.
 - We build a pipeline of topics for the next few weeks, please submit your feedback and topic suggestions - <https://aka.ms/IDDevCommunityCallSurvey>
 - View recordings on the Microsoft 365 Developer YouTube channel - <https://aka.ms/M365PnP/videos>
 - Follow us on Twitter **@Microsoft365Dev** and **@azuread**
 - This is NOT a support channel. Please use Stack Overflow to ask your immediate support related questions.
- When is the next session?
 - Community Calls: Monthly – 3rd Thursday of every month

Agenda

- What is MSAL.js?
- What can you use it for?
- What changed since ADAL?
- Why should you stay up-to-date on the latest MSAL version?
- Sample migration of a SPA from ADAL to MSAL
- Q & A

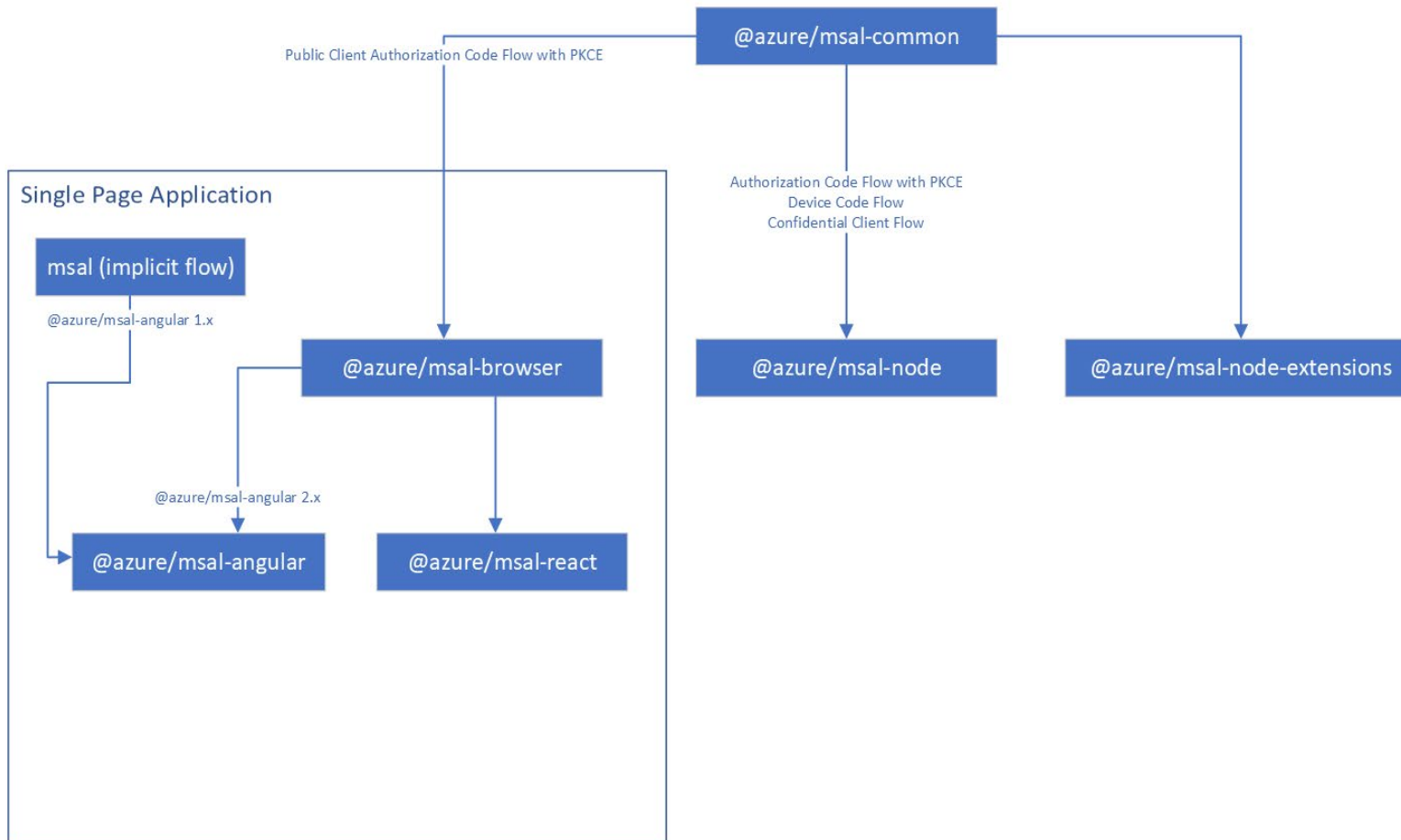
Microsoft Authentication Library for JavaScript

includes MSAL.browser, MSAL.node,
MSAL.angular, and MSAL.react

What is MSAL.js?

- Includes various JS frameworks like Angular, React, and Node
- Developed by Microsoft but an open-source SDK that welcomes contributions: [Contributing Guide](#)
- Used internally by Microsoft as well as externally
- Releases the first Monday of the month: [Release Notes](#)

MSAL.js Package Structure



- Client-side apps (public client)
- Server-side apps (confidential client)
- Authorization Code Grant with PKCE
- Client Credentials Grant
- Device Code Grant
- On-behalf-of Grant
- OpenID-compliant

What can you use MSAL.js for?

- Web applications, but primarily single-page applications
- Public and confidential client applications (using MSAL.node)
- Best for Microsoft identity providers such as Azure AD, Microsoft consumer identities, and Microsoft's B2C offering

Why MSAL instead of ADAL?

History of ADAL

- Originally released in 2015
- Only uses implicit flow
- Used v1 server endpoint which was enterprise flows only
- In maintenance currently with end of life planned for June 2023

Benefits of MSAL

- Proactive token refresh and improved resiliency
- Uses Auth Code Flow with PKCE
- One SDK for enterprise, consumer and B2C
- Enables handling Conditional Access (CA) policies and Continuous Access Evaluation (CAE) events

Why should you stay up-to-date on MSAL versions?

- Microsoft is continually investing in improving MSAL.js through monthly releases
- Latest innovations will be released only on the latest MSAL versions
 - Proof of Possession and token protection on native operating systems
 - Adding ES2020 support and dropping support for deprecated items like Internet Explorer
 - Cache and other performance improvements

Q & A

Demo of ADAL to MSAL Migration

Migrate your App from ADAL to MSAL

- App Configuration
 - Authority differences (v1 vs v2)
 - Redirect URI differences (web vs. spa)
 - API permissions differences (static vs incremental, granular scopes)
 - Supported account types
- ADAL vs MSAL API surface
 - Method name/signature changes
 - Promises vs callbacks
 - Accounts vs users
 - Error handling
- Token caching & renewal behavior

Q & A

Learn More

- [MSAL.js on GitHub](#)
- [ADAL.js to MSAL.js Migration Guide](#)
 - [Migrate SPA from implicit flow to authorization code flow with PKCE](#)
 - [Deep dive on using MSAL.js to integrate Angular SPAs with Azure AD](#)
 - [Using MSAL.js in iframed apps](#)
 - [Resources and scopes in v2](#)
- [ADAL Node to MSAL Node Migration Guide](#)
 - [ADAL Node to MSAL Node migration sample](#)
- Microsoft identity platform:
 - [Application types for the Microsoft identity platform](#)
 - [Code samples](#)
- [Graph SDK for JavaScript on GitHub](#)

Thank you

Recording will be available soon on the
Microsoft 365 Community (PnP) YouTube channel

<https://aka.ms/M365PnP/videos>

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Survey - <https://aka.ms/IDDevCommunityCallSurvey>

Next call: **April 20th at 9:00am PST**

<https://aka.ms/IDDevCommunityCalendar>