



MINIAPP MANIFEST

TPAC – 28 Oct 2021

W3C MiniApp WG

MiniApp Manifest

Describe a MiniApp with information for systems and marketplaces (icons, descriptions, versioning...), also with runtime configuration (themes, colors, orientation...)

- Spec: <https://www.w3.org/TR/miniapp-manifest/>
- Repo: <https://github.com/w3c/miniapp-manifest>
- Status: **FPWD**

W3C Working Draft

TABLE OF CONTENTS


Abstract

Status of This Document

1. MiniApp Manifest
 - 1.1 Conformance
 - 1.2 Summary of Members
 - 1.3 Example
 - 1.4 Web Application Manifest members
 - 1.4.1 `dir` member
 - 1.4.2 `icons` member
 - 1.4.3 `lang` member
 - 1.4.4 `name` member
 - 1.4.5 `short_name` member
 - 1.5 Application Information members
 - 1.5.1 `description` member
 - 1.6 Supplementary members
 - 1.6.1 `app_id` member
 - 1.6.2 `color_scheme` member
 - 1.6.3 `device_type` member
 - 1.6.4 `pages` member
 - 1.6.5 `platform_version` member
 - 1.6.6 `req_permissions` member
 - 1.6.7 `version` member
 - 1.6.8 `widgets` member
 - 1.6.9 `window` member
 - 1.7 Processing the manifest
2. MiniApp platform version resources
 - 2.1 `min_code` member
 - 2.2 `release_type` member
 - 2.3 `target_code` member

MiniApp Manifest

W3C Working Draft 03 October 2021



This version:
<https://www.w3.org/TR/2021/WD-miniapp-manifest-20211003/>

Latest published version:
<https://www.w3.org/TR/miniapp-manifest/>

Latest editor's draft:
<https://w3c.github.io/miniapp-manifest/>

Previous version:
<https://www.w3.org/TR/2021/WD-miniapp-manifest-20210925/>

Editors:
Martin Alvarez-Espinar (Huawei)
Yongjing Zhang (Huawei)

Former editors:
Shouren Lan (Huawei)
Zhiqiang Yu (Huawei)
Xiaofeng Zhang (Huawei)

Participate:
[GitHub w3c/miniapp-manifest](#)
[File an issue](#)
[Commit history](#)
[Pull requests](#)

Copyright © 2021 W3C® (MIT, ERCIM, Keio, Beihang). W3C [liability](#), [trademark](#) and [permissive document license](#) rules apply.

Abstract

This specification is a registry of supplementary members for the [Web Application Manifest](#) and the [Web App Manifest - Application Information](#) specifications that provide additional metadata to an application manifest to describe [MiniApps](#). This JSON-based manifest file enables developers to set up basic information of a MiniApp, like identification, human-readable description, versioning data, and styling information. The MiniApp manifest also configures the routing of the pages and widgets that are part of a MiniApp.

MiniApp Manifest: Metadata and Configuration

Extension of the **Web Application Manifest** →

Describe a MiniApp

- > Unique identifier, name, description, icons...
- > Versioning information, platform, ...

Configuration of a MiniApp:

- > Display configuration (background color, theme, full-screen, orientation, navigation bar...)
- > Pages configuration and routing of the app
- > Widgets configuration
- > Permissions requested (name + reason)

§ 1.7 Processing the manifest

The MiniApp manifest, as **an extension of the Application manifest**, provides a sup processed at the [extension point](#) of the [processing a manifest](#) algorithm defined in user agent starts by processing the [Application manifest](#)'s members and, at the ex processing the MiniApp manifest members using the following algorithm.

```
{
  "dir": "ltr",
  "lang": "en-US",
  "app_id": "org.example.miniapp",
  "name": "MiniApp Demo",
  "short_name": "MiniApp",
  "version": {
    "name": "1.0.1",
    "code": 11
  },
  "description": "A Simple MiniApp Demo",
  "icons": [
    {
      "label": "Red lightning",
      "src": "common/icons/icon.png",
      "sizes": "48x48"
    }
  ],
  "platform_version": {
    "min_code": 1,
    "release_type": "Beta1",
    "target_code": 2
  },
  "pages": [
```

MiniApp Manifest: Next steps

Internationalization (currently MiniApps apply localization during building process)

- > We need to distribute manifest in different languages: marketplaces will choose the right language
- > To align with the **Web App Manifest solution** (WICG's proposal: <https://github.com/WICG/manifest-incubations/blob/gh-pages/translations-explainer.md>)

```
{
  "name": "Good dog",
  "description": "An app for dogs",
  "icons": [],
  "screenshots": [],
  "lang": "en",
  "translations": {
    "fr": {
      "name": "Bon chien",
      "description": "Une application pour chiens",
      "icons": [],
      "screenshots": []
    }
  }
}
```

Alternative:

```
{
  "name": "Good dog",
  "description": "An app for dogs",
  "icons": [],
  "screenshots": [],
  "lang": "en",
  "translations": {
    "fr": "manifest.fr.json"
  }
}
```

More **details on routing** (e.g., indicate where the localization (i18n) resources are)

Vendor-dependent attributes (*alipay_key_feature*, *quickapp_cool_feature*...) repository for extensions

Accessibility features within the manifest

Thank you.

Get involved! <https://github.com/w3c/miniapp-manifest>