



MINIAPP PACKAGING

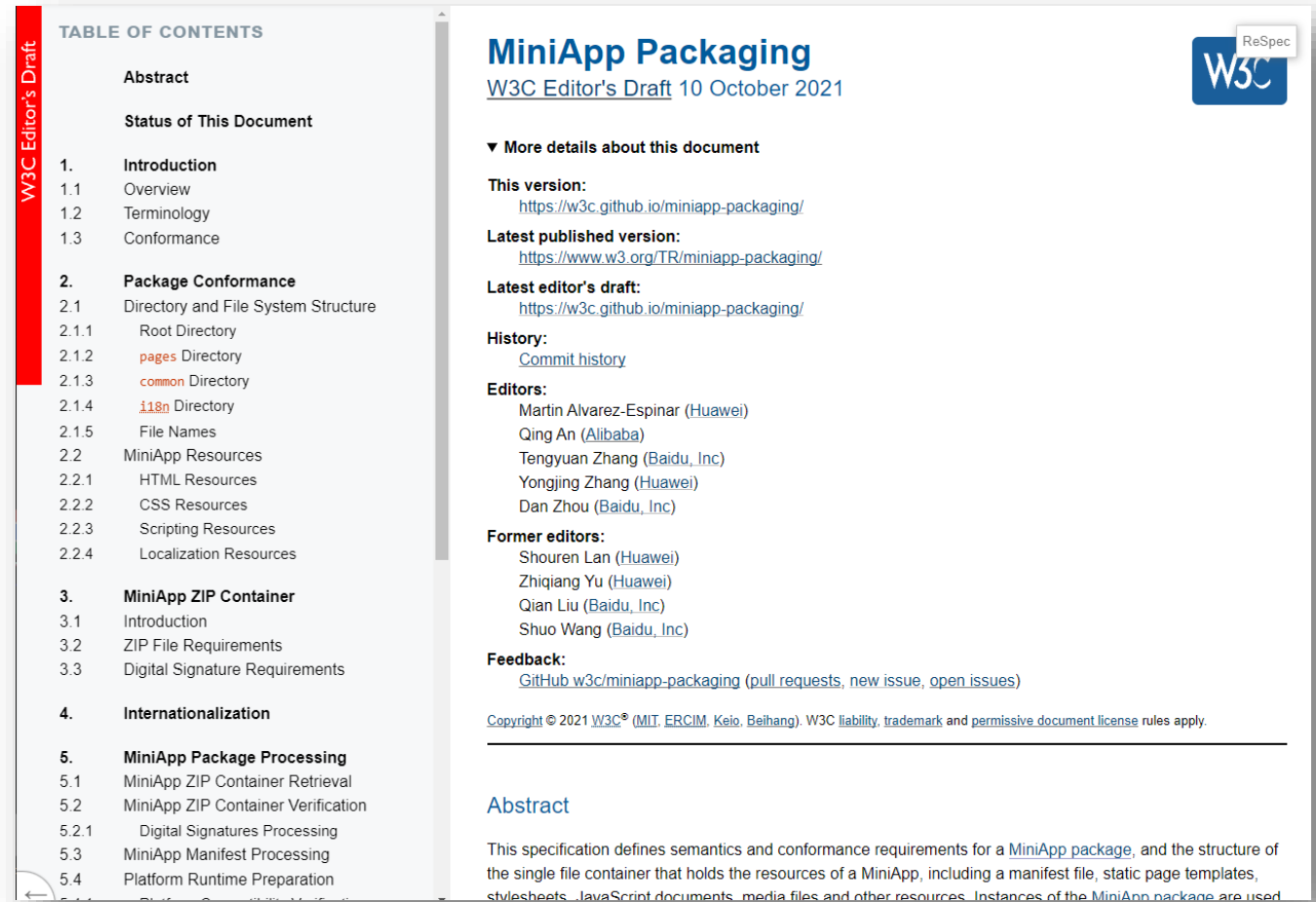
TPAC – 28 Oct 2021

W3C MiniApp WG

MiniApp Packaging

Defines the **logical** (pages, components, styles...) and **physical structure** (file system directories, signatures...) of a **MiniApp**.

- Spec: <https://w3c.github.io/miniapp-packaging/>
- Repo: <https://github.com/w3c/miniapp-packaging>
- Status: **Ready for FPWD**



The screenshot shows the 'MiniApp Packaging' document, labeled as a 'W3C Editor's Draft' dated '10 October 2021'. It features a 'TABLE OF CONTENTS' on the left and a main content area on the right. The table of contents lists sections from 'Abstract' to 'MiniApp Package Processing'. The main content area includes links for 'More details about this document', 'This version', 'Latest published version', 'Latest editor's draft', 'History', 'Editors', 'Former editors', and 'Feedback'. It also contains a copyright notice and the start of the 'Abstract' section.

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MiniApp Packaging

W3C Editor's Draft 10 October 2021

▼ More details about this document

This version:
<https://w3c.github.io/miniapp-packaging/>

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

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

History:
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Feedback:
[GitHub w3c/miniapp-packaging](#) (pull requests, new issue, open issues)

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Abstract

This specification defines semantics and conformance requirements for a [MiniApp package](#), and the structure of the single file container that holds the resources of a MiniApp, including a manifest file, static page templates, stylesheets, JavaScript documents, media files and other resources. Instances of the [MiniApp package](#) are used

MiniApp Packaging: outline of the spec

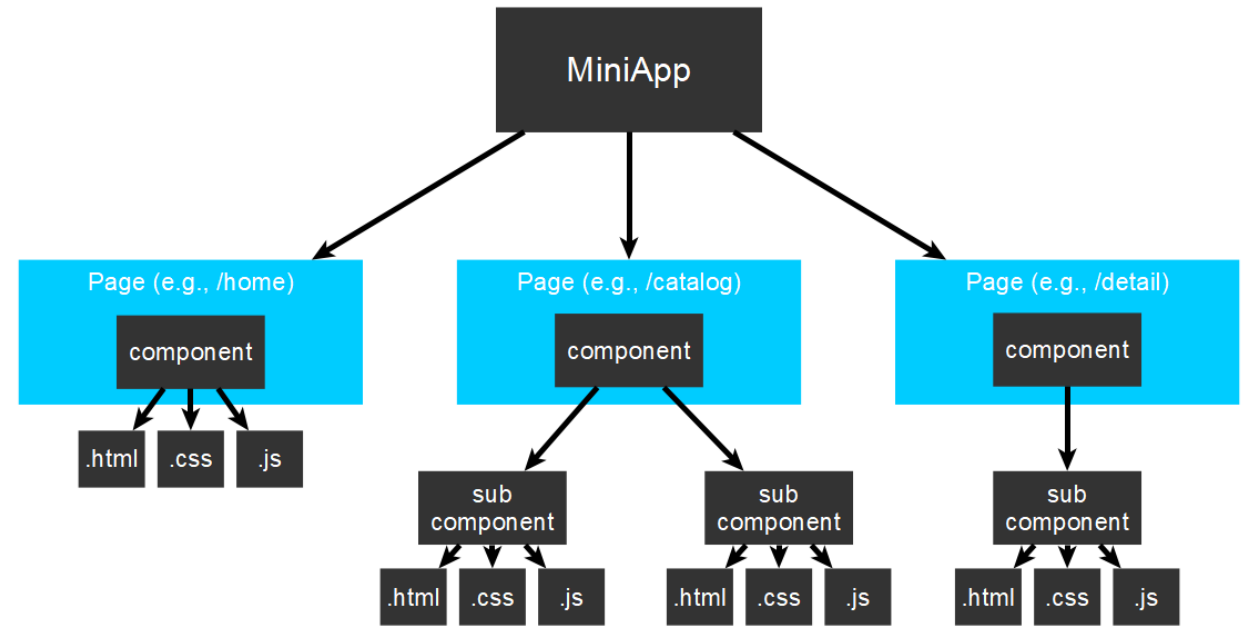
- How to **create and handle MiniApp packages**
- Definition of the **main terms** of the MiniApps:
 - > MiniApp; page, resources, widget...
- Requirements of the **file system** (directories, filenames, etc.) →
- Main resources:
 - > *.html, .css, .js, manifest.json*
 - > **Localization (i18n)** resources
- **MiniApp ZIP container:**
 - > Logic and physical requirements
 - > Signature mechanisms

```
/
|__manifest.json
|__app.js
|__app.css
|__pages/
|    |__page1.js
|    |__page1.html
|    |__page1.css
|__common/
|    |__componentA.js
|    |__componentA.html
|    |__componentA.css
|    |__example.png
|__i18n/
|    |__zh-Hans.json
|    |__en-US.json
```

MiniApp Packaging: types of resources

Types of resources:

- > **HTML** → Based on templates + data binding
- > **JS** → Standard ES
- > **CSS** → CSS Profile
- > i18n Resources



The content of the document (syntax and structure) will be defined in a separate specification: **MiniApp Content**

(see related discussion on the **UI components** → *MiniApp CG Meeting*)

MiniApp Packaging: next steps

Development of a new deliverable on the **MiniApp Content**

MiniApp Resources:

- > **HTML profile**

- **HTML elements** may be supported as they are
- HTML Web components widely used in MiniApps (tabs, switch,...)
- Additional editor note with the list of web components used by MiniApps?
- To create new **proposal in Open UI**?

- > *[alternative] Domain Specific Language (XML application) with dedicated DOM*

- > **CSS profile** → define the properties, at-rules and values supported

- Proposal for the CSS WG for the missing parts → e.g., density pixels and other non-standard proposals.

- > **Internationalization** → refine the localization resources and how they are applied.

Thank you.

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