

Use Cases

vIETF 107 WPACK WG
WG Chairs

Bundles of resources

Client-generated snapshot of a complete web page

Web page's tree of JavaScript modules

Selection of the whole web for peer-to-peer distribution in a country when access to authoritative servers is unavailable

Optional: books, including no expiration date and the ability to reference a resource within a bundle (e.g. chapter)

Continuity of Experience

The ability to receive a web package from an entity other than the origin server and have continuity of experience and state (especially that created by active content such as JavaScript) between the offline and online versions.

Efficient loading

When a bundle is streamed, the client must be able to start using a subresource before the entire bundle is downloaded, and for large subresources, before the entire subresource is downloaded.

When a bundle is loaded from random-access storage, the client must be able to use a subresource without necessarily reading the entire prefix of the bundle before that subresource.

Authentication

A way for the publisher to authenticate these resources such that a user agent can trust that they came from their claimed web origins.

Security and privacy properties of using authenticated bundles as close as practical to TLS 1.3 transport of the same resources.

Optional: Support signed statements about subresources beyond just assertions that they're accurate representations of particular URLs.