Open Podcast API

A NEW API SPECIFICATION ENABLING END-USERS TO SYNC EPISODE LISTENING STATUSES & MORE

The problem

Existing de-facto standard

- is no longer actively maintained
- has technical issues & challenges, e.g.:
 - episode identification (based on media URL; not unique in RSS wild west)
 - feed duplication (feed URL updates not handled adequately)
- is effectively used as centralised service
 - overload on server = users facing errors in their apps

The solution

A new API that builds upon the existing solution in a more extensible and standards-compliant way

END-USERS

- Synchronise subscriptions, listening progress, favourites, queues, and more
- Connect all compliant apps and online services
- Switch between providers without losing any information

DEVELOPERS

- Clear and comprehensive documentation for features and behaviours
- Reliable specs that are easy to implement
- Feature-complete specs that are decentralisation-ready

The approach

- Building a new API inspired by the <u>gPodder.net API</u> specs
 - gPodder compatibility is not a focus
- Following <u>OpenAPI</u> specification
 - Plans for libraries via Cl for quick integration (Java, Typescript, PHP, C++, Dart)
- RSS is single source of truth, wherever possible
 - E.g. don't sync episode titles
 - E.g. do create & sync true GUID
 - Podcasting 2.0 ready

The technical challenges – Episode identification

Issue:

- Hash of combination of <guid>, <link> and <enclosure>?
- Former not always 'globally unique' (even within feed), latter not always stable (e.g. corrected audio files)

Solution:

- GUID by 'first discoverer' of the episode
- Sync first, post later
- Deduplication responsibility of client

More considerations in meeting notes

The technical challenges – Feature compatibility

Issue:

 Cannot expect all connecting apps/services to support all endpoints & calls, because of different feature sets

Solution:

- Core: every user-facing (web) application expected to offer
- Optional: syncing of data if server supports it
- Documented in the API, core mandatory for 'compliance'
- Mapping of capabilities to be done

The endpoints

- Subscriptions (add, get all/single, update, delete, deletion status)
- Versioning (get supported versions, get supported capabilities)
- Episodes (add, get all/single, update, ...: GUID, status, playback position, total time played, last played, metadata changed, ...)

Settings

Search





The interested projects



AntennaPod





<u>Kasts</u>





<u>gPodder Sync</u> for Nextcloud



The next steps

- Episodes end-point discussions
- Authentication discussions
- New website (easier navigation of specs & end-points)
- Mapping of features across apps (to be supported by API specs)
- 'Beta implementation' in a few apps
- Reference server implementation

The contact details



https://github.com/OpenPodcastAPI



https://OpenPodcastAPI.org



#OpenPodcastAPI:matrix.org



The questions



The contact details



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